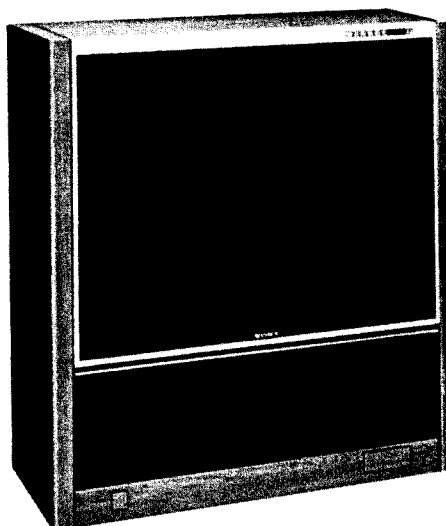


KPR-4620

RM-730

SERVICE MANUAL



US Model
Chassis No. SCC-758A-A

May, 1986

SPECIFICATIONS

| | | | |
|--|---|---------|--|
| Structure | Screen and projector, rear projection type | Antenna | 75-ohm external antenna terminal for VHF/UHF/CATV |
| Projection system | 3-picture tubes, 3 lenses, horizontal in-line system | Inputs | VIDEO 1,3 IN (phono jacks) Video: 1Vp-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100% modulation, 47 kilohms) |
| Picture tube | 5.5 inch high-brightness monochrome tubes, with coolant sealed, dust inhibition anti-static faces | | VIDEO 2 IN AV (AV jack) Video: 1V p-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100% modulation, 47 kilohms) |
| Projection lenses | High-performance, large-diameter hybrid lens F 1.0 | | RGB multi input (See the diagram) RGB AUDIO IN (stereo mini jack) CONTROL IN (mini jack) 5Vp-p |
| Screen material | Acrylic plastic, Fresnel lenticular type | | 75-ohm external antenna terminal for VHF/UHF/CATV AUX 75-ohm auxiliary antenna terminal |
| Projected picture size (measured diagonally) | 46 inches | | MONITOR OUT (phono jacks) Video: 1Vp-p, 75 ohms unbalanced, sync negative Audio: 408mVrms (100% modulation, 1 kilohm) |
| Viewing distance | 2.5m (approx. 8 1/5 ft) minimum to 16m (approx. 52 1/2 ft) maximum | Outputs | CONTROL OUT (mini jack) 5Vp-p TO CONVERTER terminal |
| Optimum seating arrangement | Within approx. 80 degrees from center | Speaker | Three-way speaker system Woofer: 12x19cm (4 3/4 x 7 1/2 inches) 2 units Midrange: 5cm (2 inches) dia. 2 units Tweeter: 2cm (13/16 inch) dia. 2 units |
| Screen brightness | Typical 220 foot-Lamberts | | |
| Television system | American TV standards | | |
| Channel coverage | VHF: 2-13 UHF: 14-69 CATV: 1-125 | | |

— continued on next page —



COLOR REAR VIDEO PROJECTOR

SONY®

MON

Power requirements

120V AC, 60Hz

Power consumption

186W (max.), 135W (average)

4W (in standby condition)

Dimensions

1106 × 1213 × 640 mm (w/h/d)

(43½ × 47¾ × 25¼ inches)

Weight

73 kg (161 lb. 3 oz.)

Accessories supplied

Remote Commander RM-730 (1)

with 2 size AA batteries

Antenna connector (1)

Optional accessories

Connecting cables (See page 14)

Cables for RGB connector

SMF-502 (8-pin ↔ 25-pin)

SMF-505 (8-pin ↔ 18-pin)

SMF-507 (8-pin ↔ 9-pin)

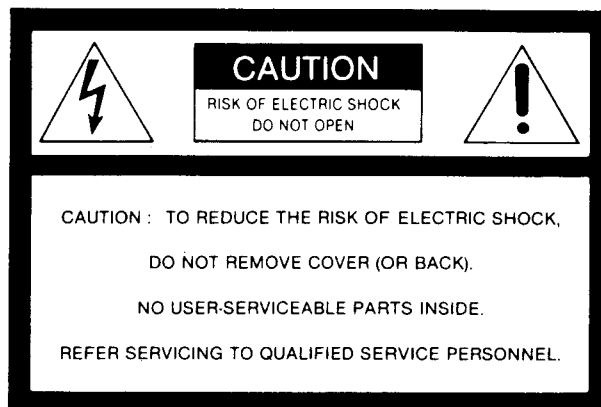
RGB multi input (8-pin plug)

| Pin No. | Signal assignment |
|---------|---------------------------|
| 1 | Intensity input |
| 2 | Red input |
| 3 | Green input |
| 4 | Blue input |
| 5 | Ground |
| 6 | Ground |
| 7 | H. sync or composite sync |
| 8 | V. sync |

Design and specifications are subject to change without notice.

WARNING

To prevent fire or shock hazard, do not expose the set to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.




This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

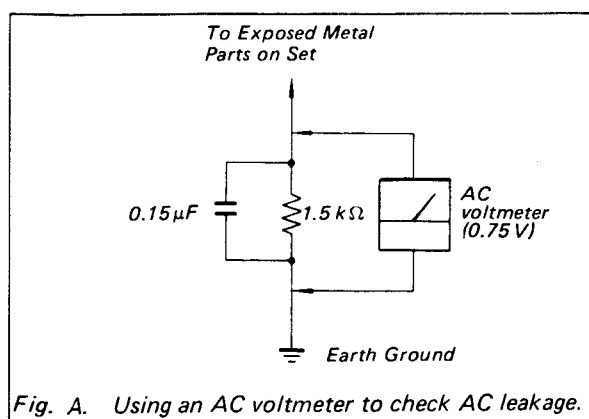
SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

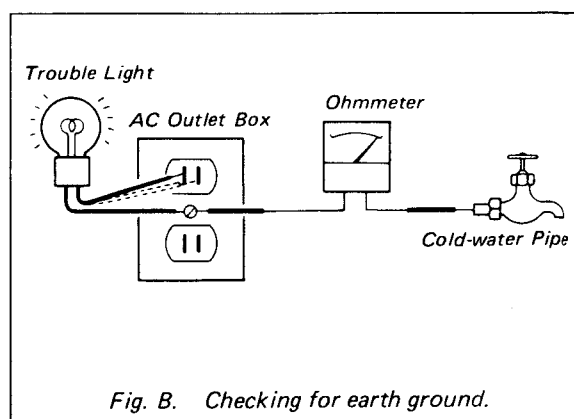


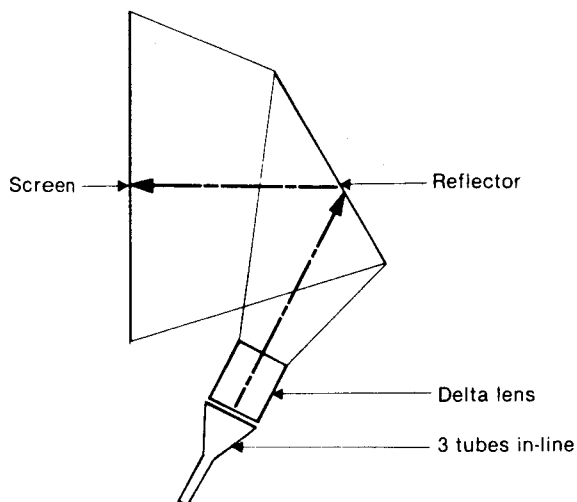
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SECTION 1 GENERAL

1-1. FEATURES

- Remote control color rear video projector with a multifunction Remote Commander projects TV pictures on a self-contained 46-inch screen (measured diagonally).
- A unique "folded optics" system with one reflector less than other systems provides "compact and slim" projector design.



- New "Optical coupling and cooling" system remarkably improves the picture contrast.
- Two-way built-in speakers provide powerful sound reproduction.

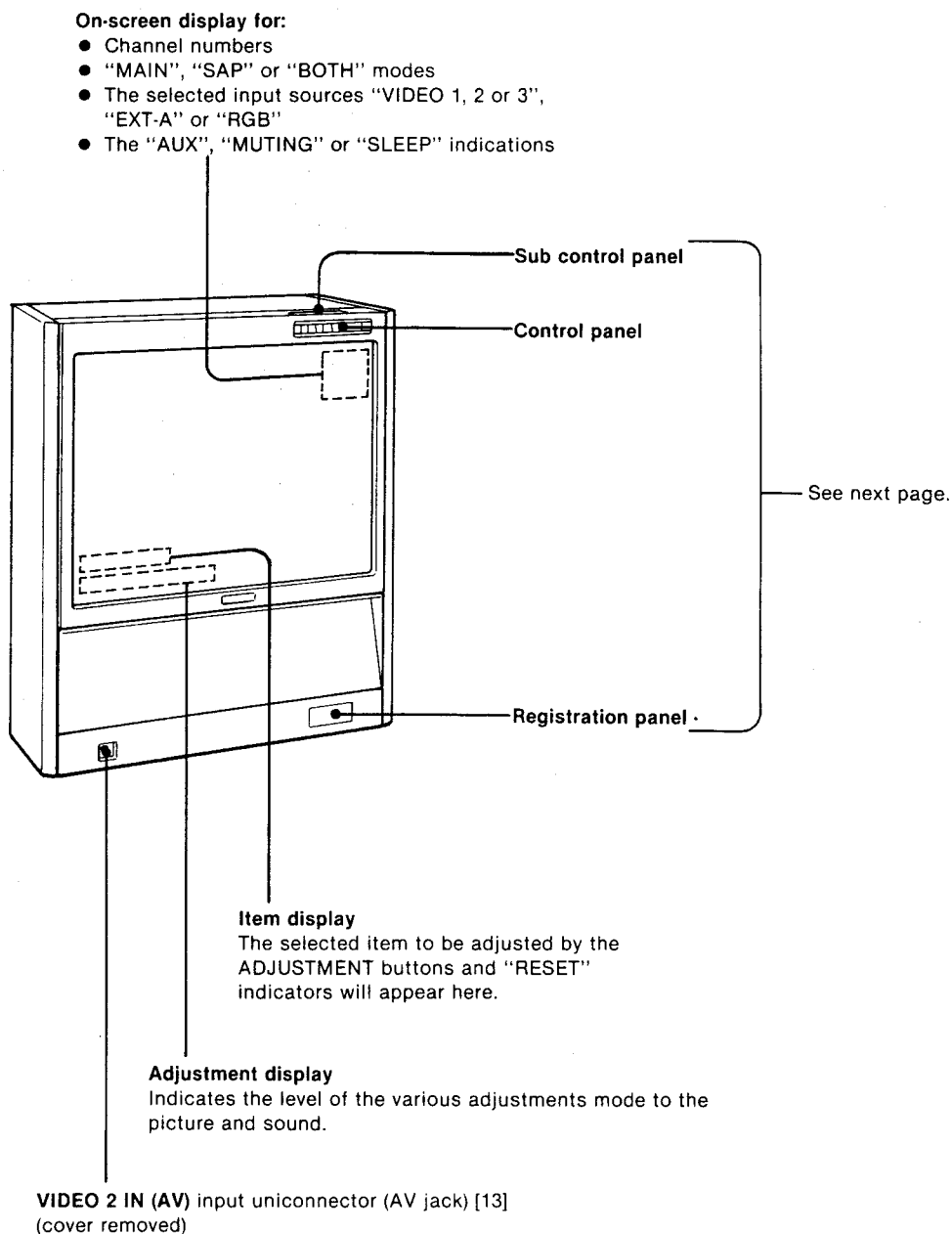
- Built-in stereo decoder decodes MTS (Multichannel TV sound) broadcasts into left and right stereo or SAP (Second Audio Program) channels.*
- Multi-band VHF/UHF/CATV tuner receives up to 125 cable channels for total of 181 possible off-air and cable channels.
- Two built-in video and L/R audio line inputs and a new AV unconnector allow direct hook-up to VCRs, video disc players, video games or other audio/video sources. The AV unconnector receives combined video and L/R audio signals for one easy connection.
- Built-in video and L/R audio line outputs provide the selected output from the TV tuner or any of the equipment connected to the audio-video line inputs or the AV unconnector.
- Built-in RGB input for higher resolution display of computer-generated text and color graphics.
- On-screen displays for easy reference to operating modes and adjustments.
- Dynamic Picture™ circuitry automatically adjusts the picture contrast to produce more detail in bright and dark areas of the scene.
- Dynamic Focus™ circuitry automatically focuses the scanning electron beam for enhanced sharpness over the entire picture, especially in corners.
- Colorpure Filter™ separately processes B/W picture information from color information to produce a dramatically sharper picture

*Depends on availability of off-air stereo broadcasts

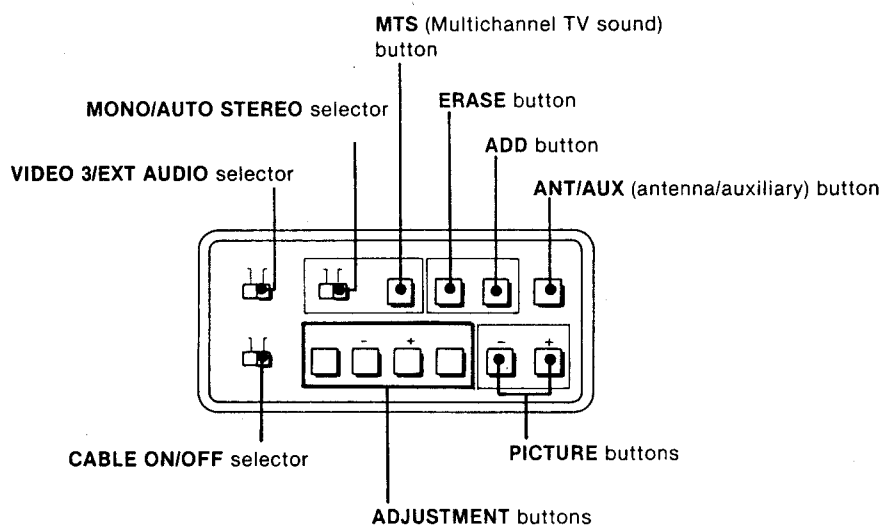
1-2. LOCATION OF CONTROLS

For details on the use of each control, refer to the pages indicated in brackets.

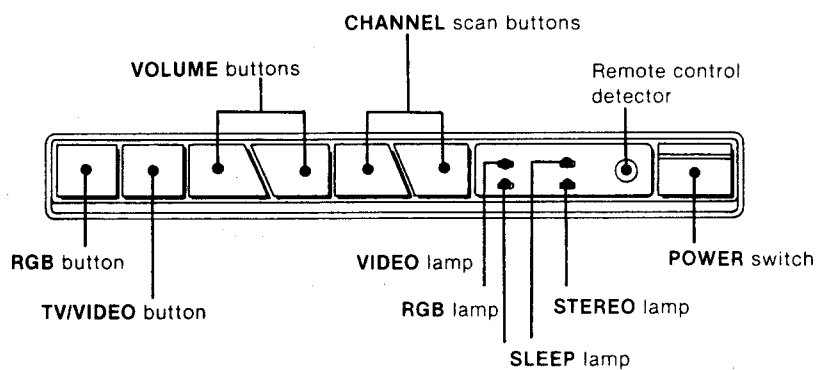
See page 12 for the location of jacks and controls on the back.



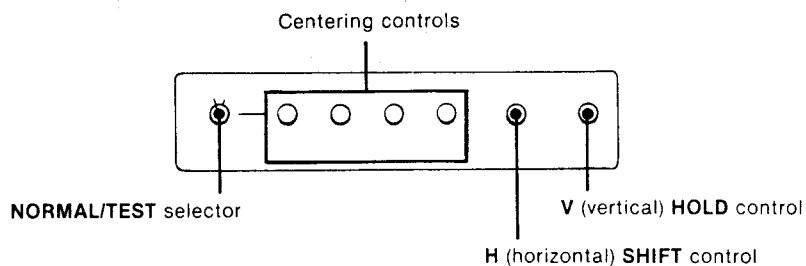
SUB CONTROL PANEL (top of the cabinet)



CONTROL PANEL



REGISTRATION PANEL



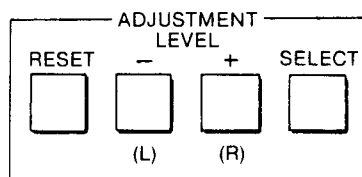
1-3. ADDITIONAL PICTURE AND SOUND ADJUSTMENT

(Hue: Color: Brightness: Sharpness: Treble: Bass: Balance)

Additional picture and sound adjustments besides the adjustments made by the PICTURE and VOL (volume) buttons can be made as follows although your unit comes with its picture and sound preset at the factory for optimum performance.

The adjustments made can be cleared and the factory preset levels will be restored at once when the **RESET** button is pressed. (A "RESET" indicator will appear for a few seconds.)

Controls are inside the sub control panel.



- 1 Press **SELECT** button consecutively until the on-screen display of the item you desire to adjust appears. The display will change as follows:

HUE→COLOR→BRIGHT→SHARP→TREBLE→BASS
→BALANCE→back to HUE

The display will disappear after a few seconds but will appear again when the next step is taken.

- 2 Press **LEVEL -(L)/+(R)** button to adjust the selected item.

| | Selected item | -(L) Left button | +(R) Right button |
|--------------------|---------------|--|---|
| PICTURE ADJUSTMENT | HUE | Skin tones become purplish | Skin tones become greenish |
| | COLOR | For less color intensity | For more color intensity |
| | BRIGHT | For less brightness | For more brightness |
| | SHARP | For less sharpness | For more sharpness |
| SOUND ADJUSTMENT | TREBLE | To decrease treble response | To increase treble response |
| | BASS | To decrease bass response | To increase bass response |
| | BALANCE | To emphasize the left speaker's volume | To emphasize the right speaker's volume |

On-screen color-bar displays

When any of the above adjustments are made, a colored segmented bar appears on the screen to indicate the appropriate setting level.

- The HUE setting is indicated by the ratio of the red (left) and green (right) segments.
- The COLOR level is indicated by the number of red segments.
- The BRIGHT, SHARP, TREBLE and BASS levels are indicated by the number of green segments.
- The stereo BALANCE is indicated by the ratio of the green (left) and red (right) segments.
- While the VOL or PICTURE button is pressed, the number of green segments show the sound or picture level.

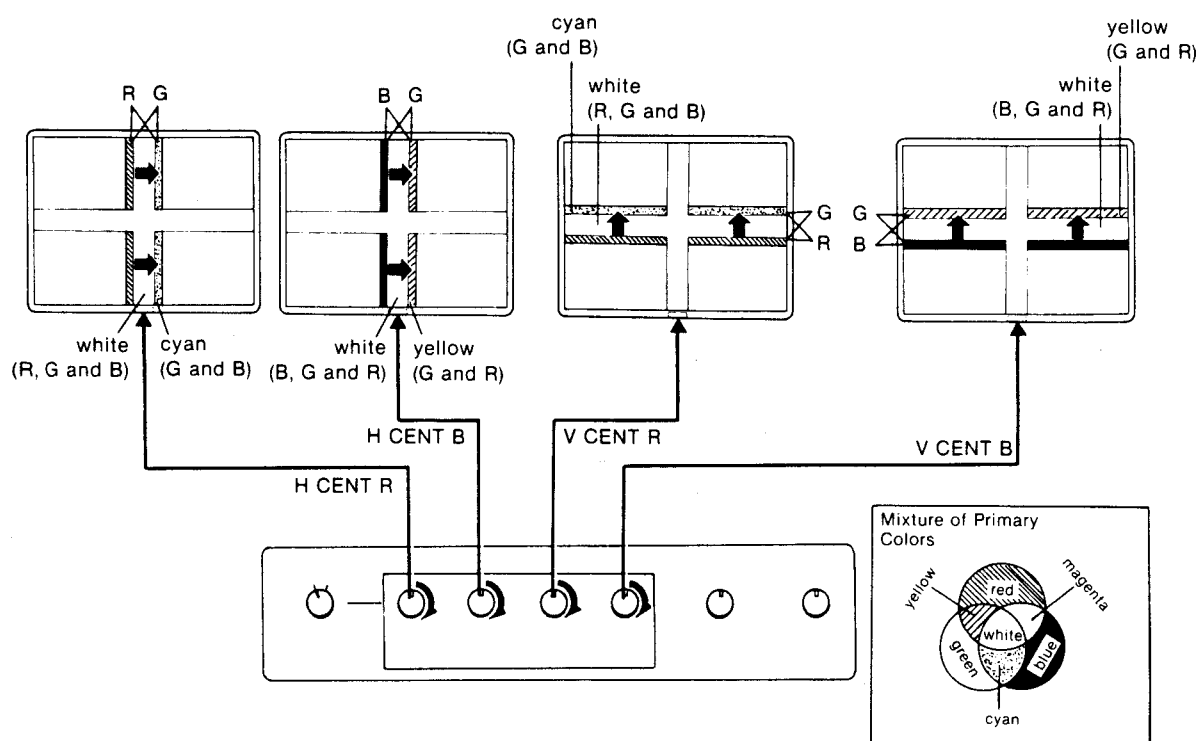
1-4. REGISTRATION ADJUSTMENT

When the red, green and blue lines are not be superimposed (the cross may not be seen as white), perform the registration adjustment yourself. Should the difficulty persist, contact your Sony dealer.

Follow steps 1 through 6.

- 1 Turn the set on with the POWER switch.
- 2 Open the registration panel and set the NORM/TEST selector to TEST. A built-in test pattern will be displayed on the screen.
- 3 Adjust the H CENT(B) and H CENT(R) controls to converge the blue and red vertical lines with the green line.
- 4 Adjust the V CENT(B) and V CENT(R) controls to converge the blue and red horizontal lines with the green line.

(In the illustration below:
R = Red, G = Green, B = Blue)



As you turn the controls clockwise, the lines move in the direction indicated in the illustrations. To move the lines in the opposite direction, turn the controls counterclockwise.

- 5 Repeat steps 3 and 4 until the cross appears white.
- 6 After the adjustment is completed, set the NORM/TEST selector to NORM and close the registration panel.

1-5. PRESETTING CHANNELS

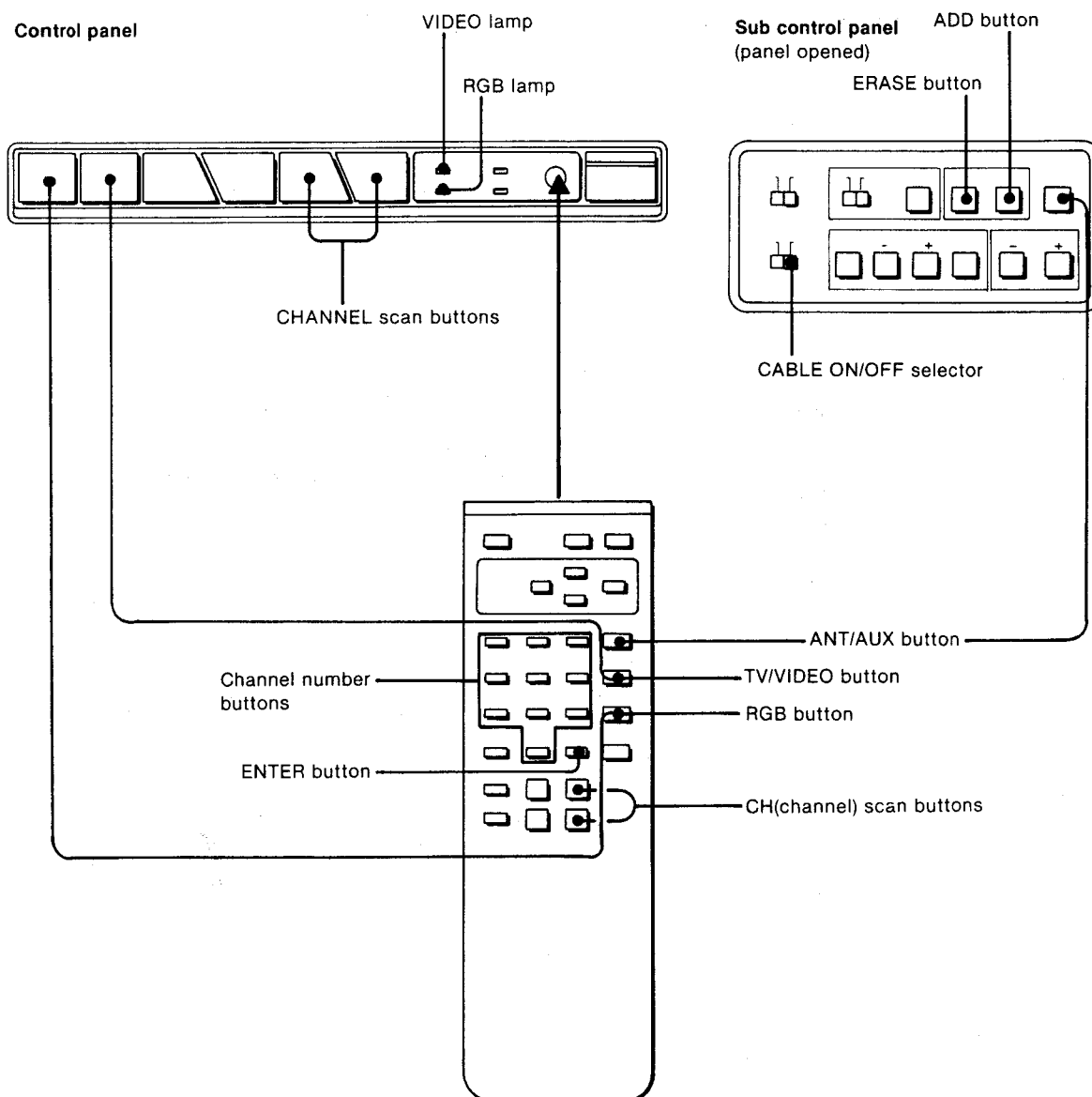
Receivable channels of your set are:

VHF: 2-13

UHF: 14-69

CATV: 1-125

By adding and erasing channels, you can preset your set so that only the desired channels appear in sequence when the CHANNEL +/- are pressed.



PREPARATION

- 1 Turn on the set.**
- 2 Make sure the following are properly set.**
On-screen "VIDEO 1, 2 or 3", "EXT-A" or "RGB" indicators and the RGB or VIDEO lamp should be off.
(Press TV/VIDEO button or RGB button as necessary until they go out.)
- 3 According to the channel to be added or erased, check the following and make the necessary changes.**
 - **CABLE ON/OFF selector:**
For VHF and UHF channels, set to OFF \square .
For cable TV channels, set to ON \square .
 - **On-screen "AUX" indication**
(Press ANT/AUX button as necessary.)
For VHF, UHF and regular cable TV channels, the indication should be off.
For pay cable TV channels, the indication should be displayed.

ADDING CHANNELS

- 1 Select the channel to be added by pressing the channel number buttons and then ENTER.**
 - 2 Press ADD.**
A "+" indication will appear on the left of the channel display on the screen, indicating that the channel will appear in the proper numerical sequence when you press CHANNEL +/-.
- Repeat steps **1** and **2** for other channels to be added.

ERASING CHANNELS

- 1 Select the channel to be erased.**
 - 2 Press ERASE.**
A "-" indication will appear on the left of the channel display on the screen, indicating that the channel has been erased. When CHANNEL +/- are pressed, you will see that the channel is skipped over in the numerical sequence.
- Repeat steps **1** and **2** for other channels to be erased. To add erased channels again, follow the steps in "ADDING CHANNELS".

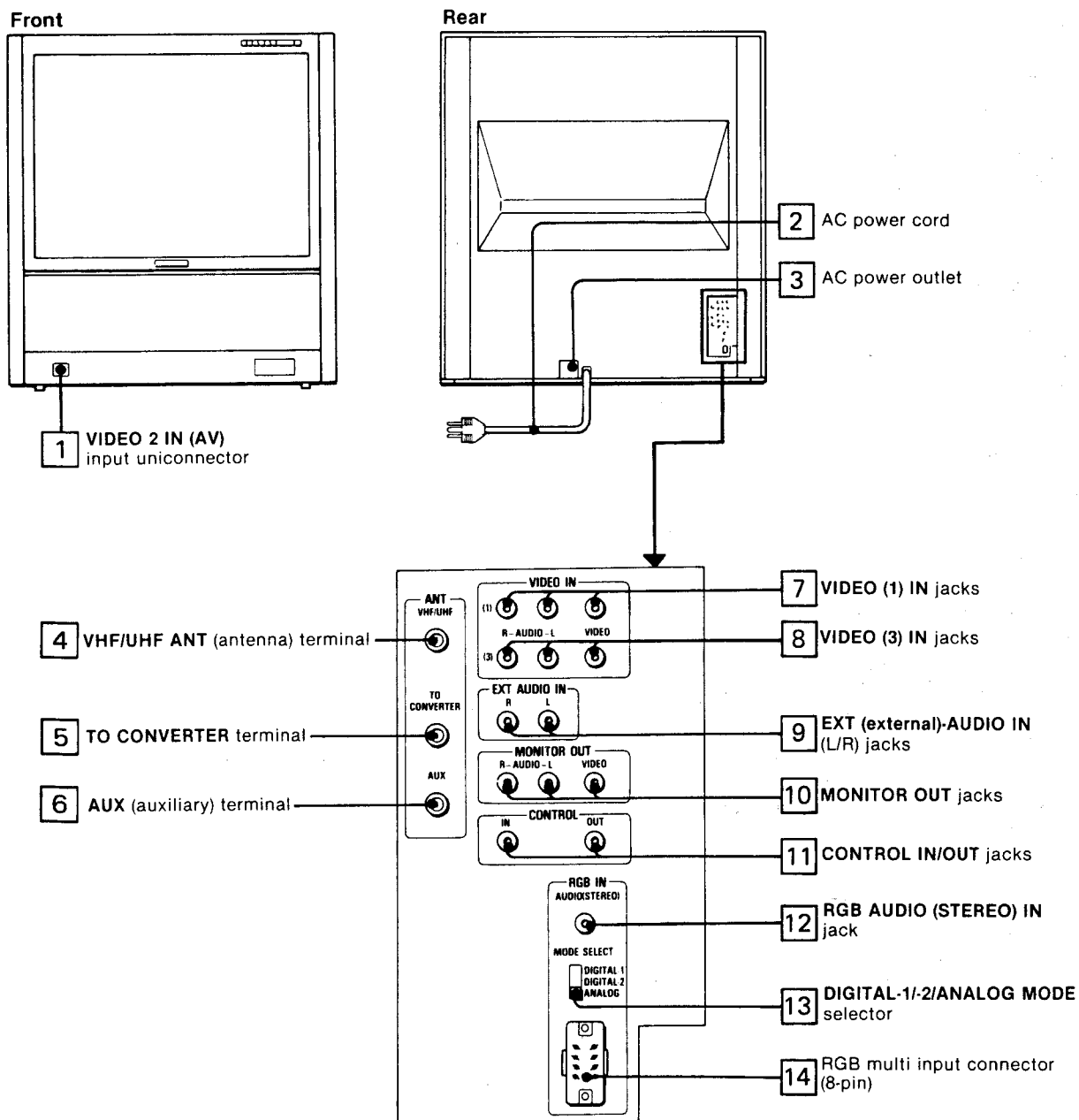
Note

You cannot erase a VHF or UHF channel from the memory and retain a cable TV channel which has the same number, or vice versa. If either a VHF/UHF channel or a cable with the same number is to be kept in the memory, do not erase the number.

1-6. APPLICATIONS WITH OTHER OPTIONAL EQUIPMENT

This unit is equipped with various input/output jacks and terminals for your desired equipment to be connected.

For details on the various optional connecting cables to be used, see "OPTIONAL AUDIO/VIDEO CONNECTING CABLES" on page 14.



1 VIDEO 2 IN (input) AV unconnector (AV jack)

Connect to the video and audio output jacks of a video cassette recorder or microcomputer. Video and audio signals are transmitted simultaneously.

2 AC power cord

3 AC power outlet

This outlet provides AC power of 100W max. to the connected microcomputer, etc.

CAUTION: Do not connect electrical home appliances such as electric irons, fans, or other high-wattage equipment to this outlet.

- | | |
|-----------------------------------|--|
| 4 VHF/UHF ANT terminal | } See "ANTENNA/CABLE CONNECTION" on page 21. |
| 5 TO CONVERTER terminal | |
| 6 AUX (auxiliary) terminal | |

7 VIDEO (1) IN jacks

8 VIDEO (3) IN jacks

Connect to the video and audio output jacks of a VCR*, video disc player, etc.

- | | |
|---------------------------------|--|
| ○ — VIDEO jack (phono, yellow) | → to video output jack |
| ○ — AUDIO L jack (phono, white) | → to audio L (left channel) output jack |
| ○ — AUDIO R jack (phono, red) | → to audio R (right channel) output jack |

*You will achieve better picture and sound quality than by connecting the VCR only to the antenna terminal.

9 EXT AUDIO IN (L/R) jacks

An external audio source can be connected to these jacks to be combined with the picture of the selected TV program. Connect to the audio/line output of the audio source.

To view FM simulcasted programs, see page 20.

10 MONITOR OUTPUT jacks (phono type)

Connect to the video and audio input jacks of a video cassette recorder or color monitor. Either the TV or VCR signal selected by the TV/VIDEO button is supplied.

To record only the sound, connect the audio input jacks of a tape recorder to the AUDIO L and R jacks with a connecting cable such as the optional RK-74A.

Note

The RGB signals are not supplied (and therefore will not be recorded on the connected VCR) from these jacks even when the RGB signals are displayed on the screen.

11 CONTROL IN/OUT jacks (mini type)

These jacks are for connecting a future audio or video product also equipped with similar CONTROL IN or OUT jacks for the expansion of your audio-video system.

12 RGB AUDIO (STEREO) IN jack (stereo mini type)

Connect to the RGB AUDIO output jack of microcomputers etc.

13 DIGITAL-1/-2/ANALOG MODE selector

For computers having intensity output, set to DIGITAL-1.

For computers without intensity output, set to DIGITAL-2.

For computers having analog output, set to ANALOG.

Note

Some microcomputers having intensity outputs may not function correctly even if this selector is set to DIGITAL-1. In this case, contact your nearest service facility.

14 RGB multi input connector (8-pin)

This connector allows direct RGB hook-up to a microcomputer having RGB output.




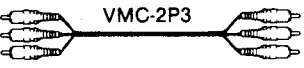


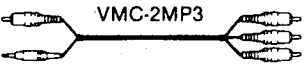


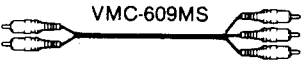
When connecting the microcomputer, use a connecting cable with an 8-pin plug that will match the RGB output of the equipment to the pin assignment of this connector designated on page 2.

1-7. CONNECTIONS




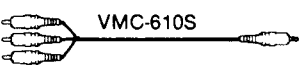


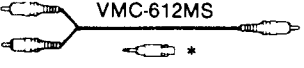
OPTIONAL AUDIO/VIDEO CONNECTING CABLES

The optional connecting cables to be used for connecting other equipment depend upon what type of audio and video jacks the equipment you desire to connect has. The following charts will help you choose which cable you should use.

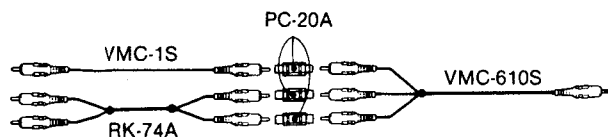
Cables to be connected to the VIDEO 1 and 3 IN jacks

| The type of audio and video jacks of the equipment to be connected. | Connecting cable to be used |
|--|--|
| Video (phono-type)  Audio (L, R) (phono-type)   |  VMC-2P3 |
| Video (phono-type)  Audio (mini-type)  |  VMC-2MP3 |
| Video (phono-type)  Audio (phono-type)  |  VMC-609MS |

Cables to be connected to the VIDEO 2 IN (AV type) uniconnector

| The type of audio and video jacks of the equipment to be connected. | Connecting cable to be used |
|--|---|
| Video (phono-type)  Audio (L, R) (phono-type)   |  VMC-610S |
| Video (phono-type)  Audio (phono-type)  |  VMC-612MS *The PC-21 is supplied to the cable for a mini-type audio input. |

If you use the connecting cable VMC-610S, extend the cable by using the optional connecting cables VMC-1S and RK-74A with the optional plug adaptors PC-20A (phono ↔ phono).



The following are few examples of the possible connections.

Notes on connection

- Before connecting, make sure that the power to each piece of equipment is turned off.
- The plugs should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Match the color when connecting the plugs to the jacks.

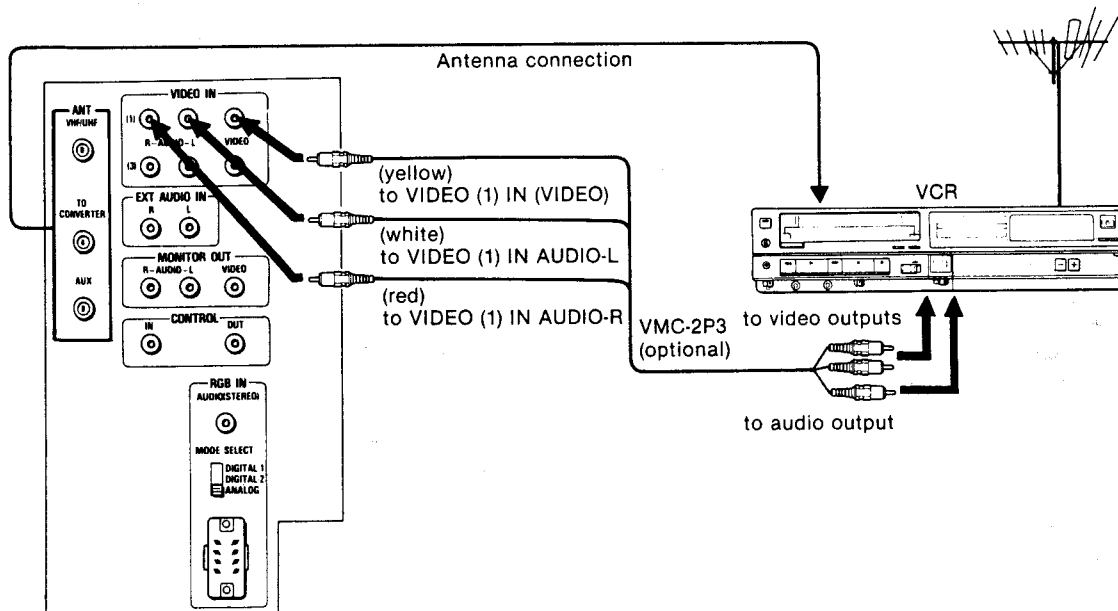
VCR CONNECTION

Keep the VCR away from the TV, if the display or sound is affected.

Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

Connecting VCRs that are capable of receiving TV broadcasts



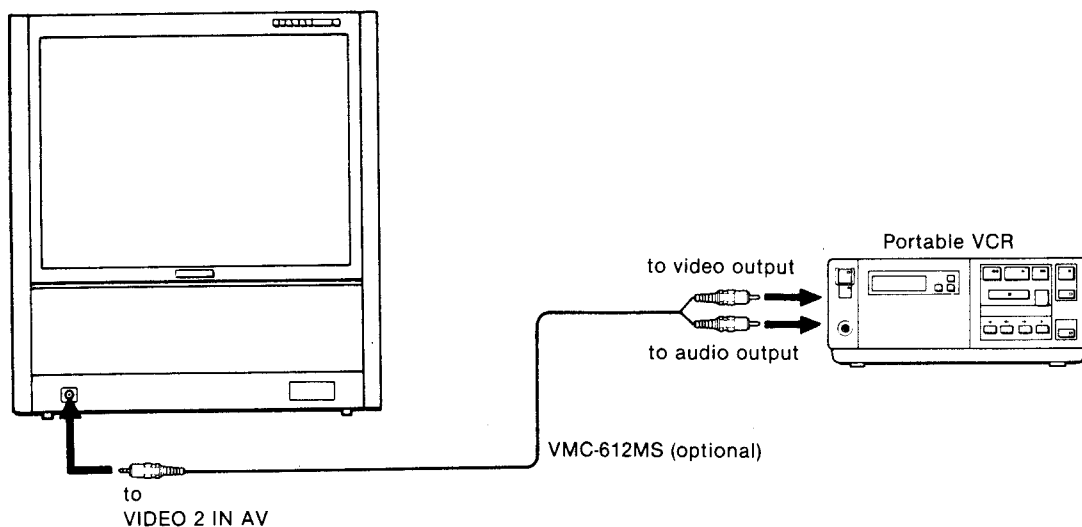
If you desire to connect another VCR, make the similar connection to the VIDEO 3 IN jacks and set VIDEO 3/EXT AUDIO selector to "VIDEO 3".

With this connection, you will be able to...

- View the playback of tapes
- Record TV programs
- Record a TV program while viewing another

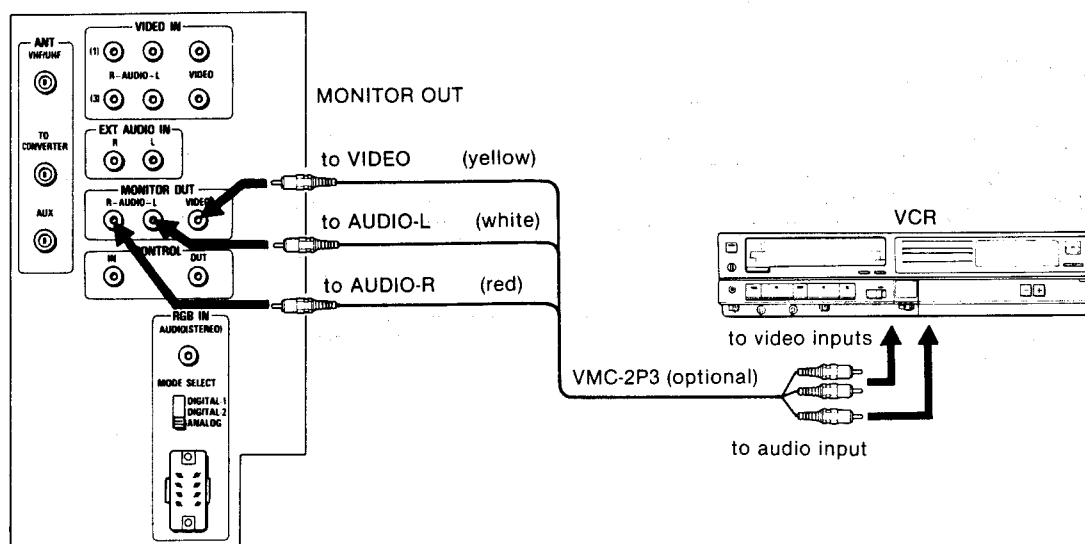
Connecting portable VCRs (that are not equipped with/connected to a TV tuner)

For playing back recorded tapes



Editing tapes by connecting a VCR to the MONITOR OUT jacks

If a VCR is connected to the MONITOR OUT jacks besides another VCR, video disc player, etc., connected to the VIDEO (1/3) jacks or VIDEO 2 IN AV unconnector, you will be able to edit your own tapes by recording the selected video source (including the TV programs) displayed on the screen. For selecting the desired video source, see page 19.



Note

The RGB input from the RGB multi input connector (8-pin) cannot be recorded.

MICROCOMPUTER CONNECTION

Using the appropriate connecting cable and with the DIGITAL-1/2 ANALOG MODE selector of this unit set to the appropriate position, this unit can be used with microcomputers and other equipment having RGB terminals.

In addition, if the equipment to be connected has the RGB audio output jack, connect it to the RGB AUDIO (STEREO) IN jack of the projector.

For details on connection, refer to the instruction manuals of the equipment to be connected.

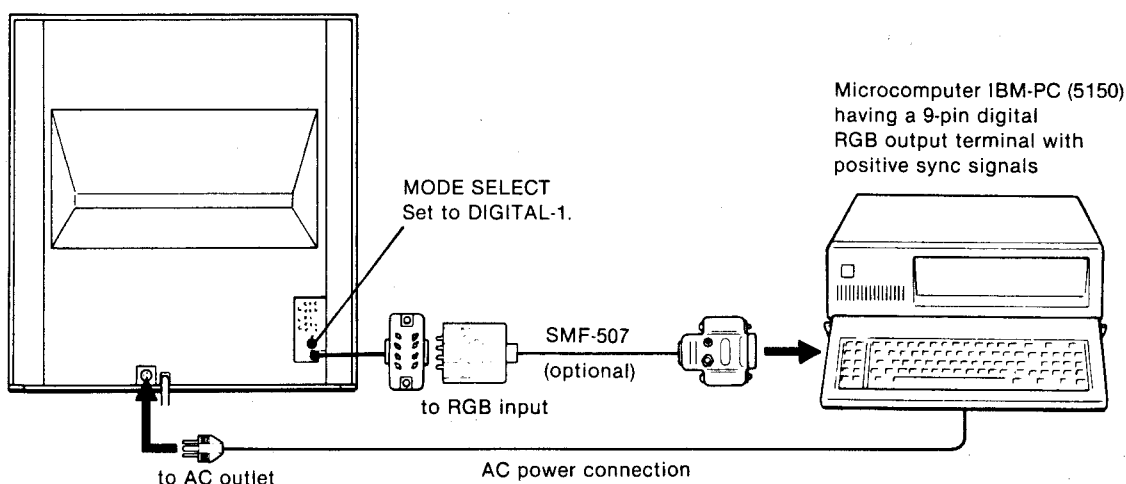
Note

According to the microcomputer to be connected, the connecting cable to be used depends upon the type of RGB output jack of the computer. The cable should arrange the output signals of RGB multi input connector (8-pin) of this set (See page 2).

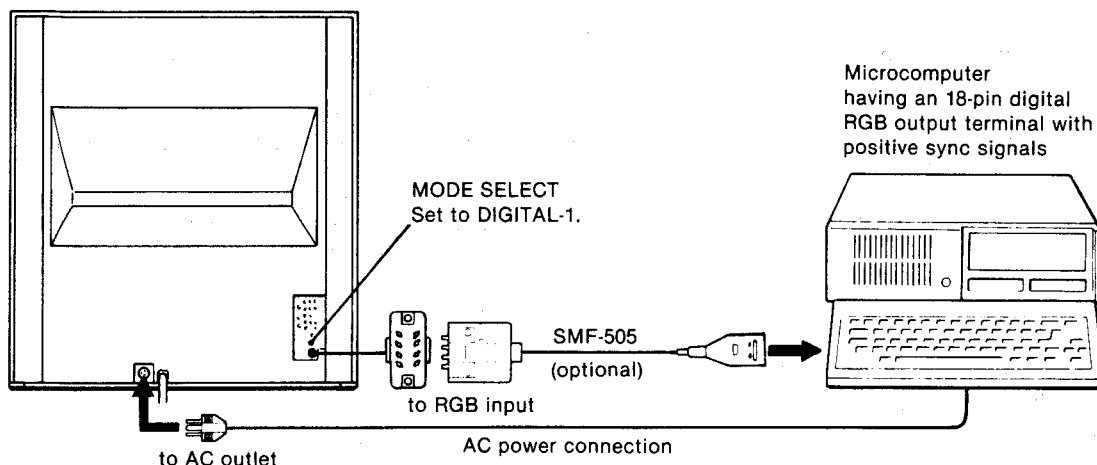
If you are not sure whether you can use your computer with this set or which connecting cable to use, consult your authorized Sony dealer.

Examples of connections with microcomputers with digital RGB output

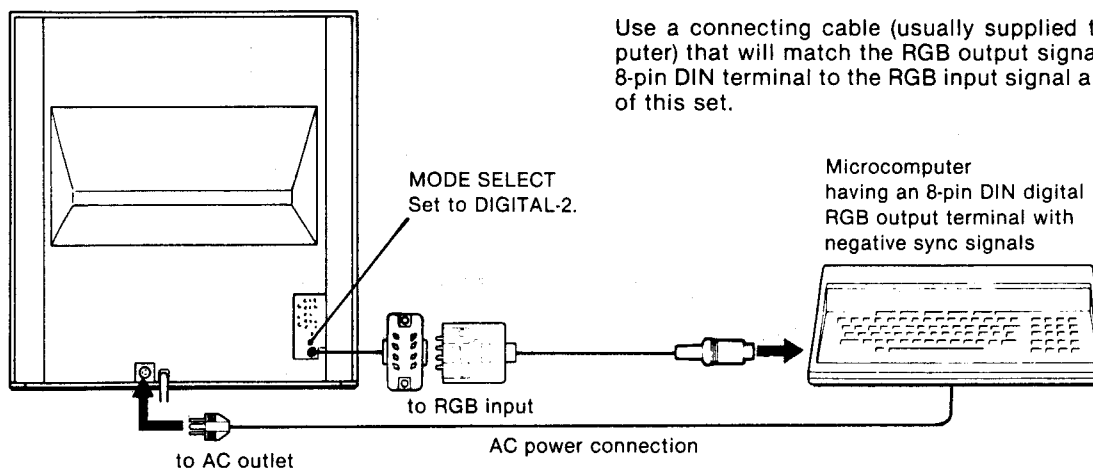
Microcomputers having intensity output



Microcomputers having intensity output



Microcomputers without intensity output



Use a connecting cable (usually supplied to the computer) that will match the RGB output signals from the 8-pin DIN terminal to the RGB input signal arrangement of this set.

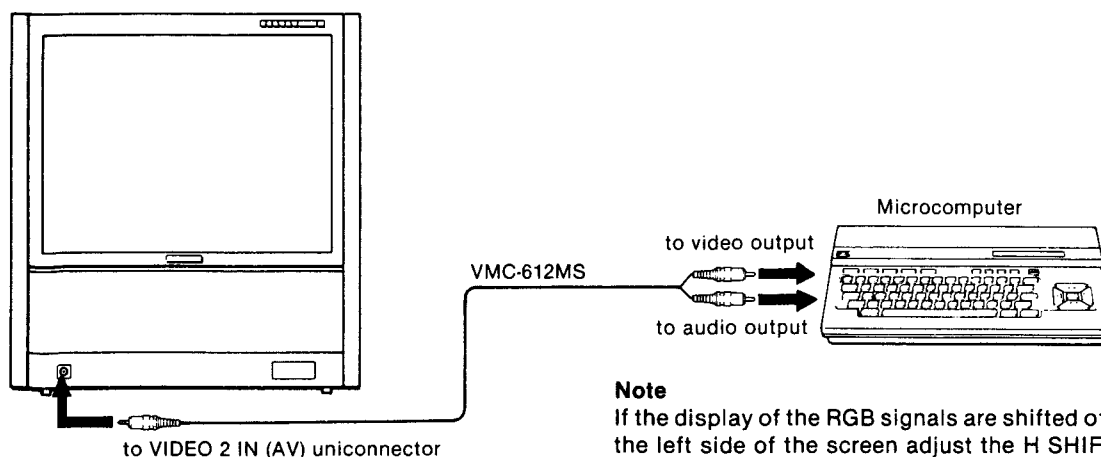
Notes

- The monitor cable should arrange the RGB output signals of the connected equipment so that they match the signal assignment of the RGB input connector of this set (See page 2). If you are not sure whether you can use your computer etc., with

this set or which monitor cable to use, consult your authorized Sony dealer.

- Some microcomputers having intensity outputs may not function correctly even if this selector is set to DIGITAL-1. In this case, contact your nearest Sony dealer.

Microcomputer with video and audio outputs



Note

If the display of the RGB signals are shifted off center to the left side of the screen adjust the H SHIFT control.

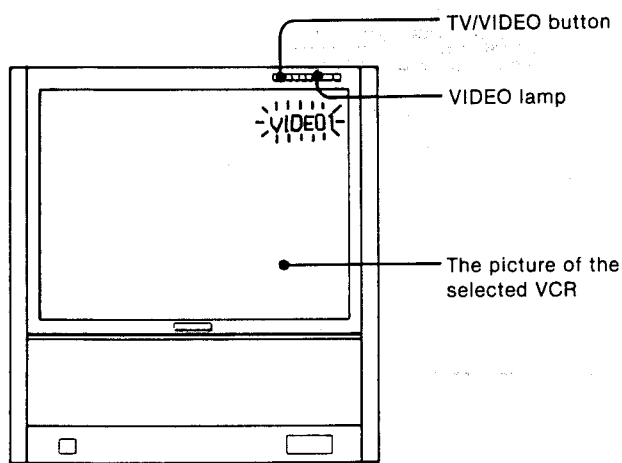
1-8. SELECTING THE VARIOUS AUDIO AND VIDEO SOURCES

VIEWING THE PICTURE OF THE EQUIPMENT CONNECTED TO THE VIDEO (1/3) IN or VIDEO 2 IN (AV) UNICONNECTOR

(If the "RGB" indication is lit, press RGB button to turn it off.)

Press the TV/VIDEO button until the "VIDEO 1, 2 or 3" indication of the VIDEO input jacks from which desired the signals to come from appears.

The VIDEO lamp will light up.



Every time you press the TV/VIDEO button, the display will change as follows:

VIDEO 1 → VIDEO 2 → VIDEO 3* → TV channel

Adjust the volume with the VOLUME buttons.

*Set VIDEO 3/EXT AUDIO selector on the sub control panel to "VIDEO 3" if "EXT-A" appears.

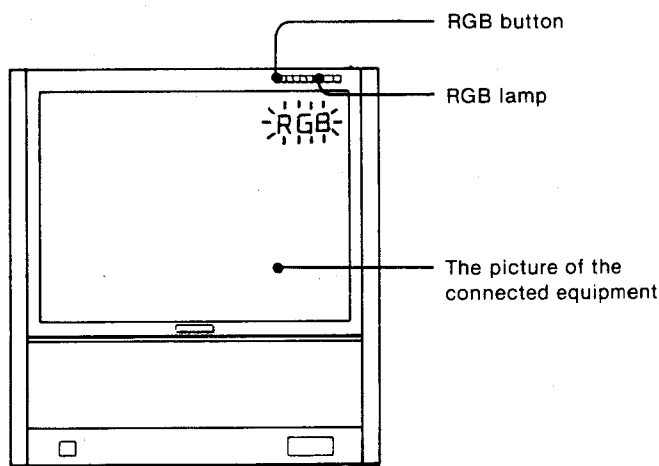
The channel number buttons on the Remote Commander or the CHANNEL scan buttons will not function while the VIDEO lamp is lit.

TO LISTEN TO THE SOUND OF THE AUDIO SOURCE CONNECTED TO THE EXTERNAL AUDIO JACKS

- 1 Set VIDEO 3/EXT AUDIO selector to "EXT AUDIO".
- 2 Press TV/VIDEO button as many times as necessary until the on-screen "EXT-A" appears.

VIEWING THE DISPLAY OF THE EQUIPMENT CONNECTED TO THE RGB MULTI INPUT CONNECTOR

Press the RGB button to display the "RGB" indication. The RGB lamp will light up.



To return to the normal TV program or to the picture of the VCR, press RGB again.

To have the indications remain on the screen, press the DISPLAY button on the Remote Commander.

Notes

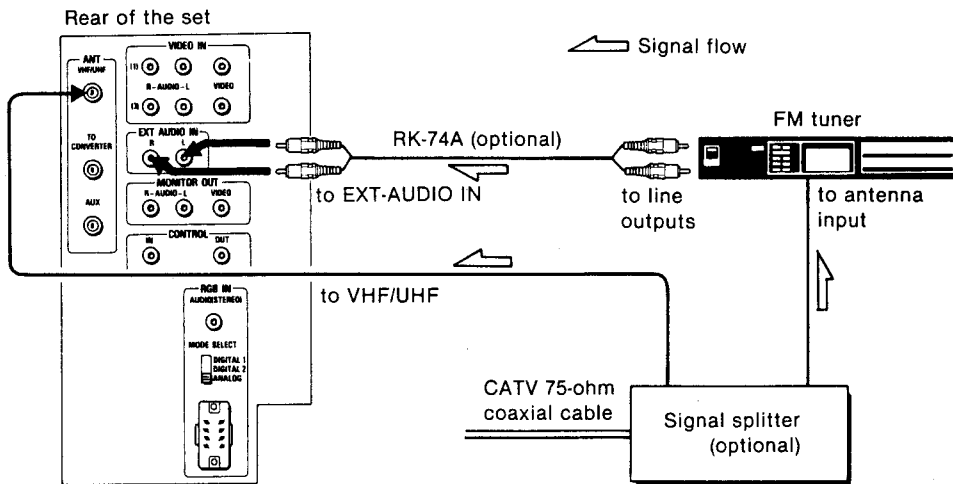
- The HUE, COLOR and SHARP (sharpness) adjustments are non-effective for the displayed RGB input. Adjust the picture with the PICTURE buttons or by adjusting the BRIGHT (brightness).
- The selected source is retained even when the power is turned off once.

1-9. ENJOYING FM SIMULCASTED PROGRAMMING

Over-the-cable FM simulcasts


Cable TV companies have also started "simulcasting" some channels like MTV (Music Television) and selected movies in stereo over the cable. In the case of cable stereo programs, however, the audio signal is not sent over the air but sent on FM frequencies over the cable.

By splitting the incoming cable signal and running it to both the TV tuner and an FM tuner/receiver, these cable programs can be enjoyed in stereo over the speakers of the projector as shown below.



Preparation

Make sure the following are properly set.

- Set VIDEO 3/EXT AUDIO to "EXT AUDIO".
- Press TV/VIDEO button as many times as necessary so that the on-screen "EXT A" indication is displayed.
- On-screen "RGB" indication or RGB lamp should be off.
(Press RGB button as necessary so that it goes off.)
- For over-the-cable FM simulcasts, the CABLE ON/OFF button should be ON , and depending on the channel to be viewed, the on-screen "AUX" indication should be as follows:
(Press ANT/AUX button to change as necessary.)
 - For regular cable TV channels:
The indication should be off.
 - For pay cable TV channels:
The indication should be displayed.

Operation

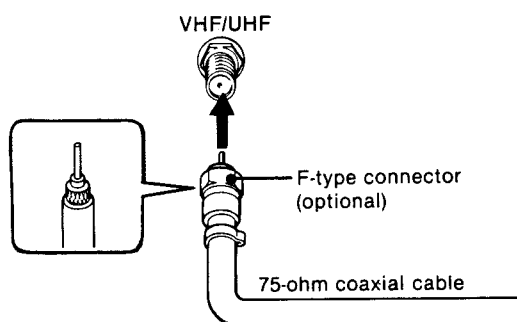
- 1 Set the FM tuner to the frequency designated by the broadcaster.
- 2 Operate the set the same as in usual TV viewing.

1-10. ANTENNA/CABLE CONNECTION

Using an outdoor antenna may be necessary. Cable TV reception is only possible by connecting a cable supplied by your local cable operator.

Prepare the antenna or cable end using the appropriate connector, and connect the antenna or cable to the antenna terminal of the set. (See A, B, C or D below.)

A Combination VHF/UHF antenna,* VHF antenna or CATV cable

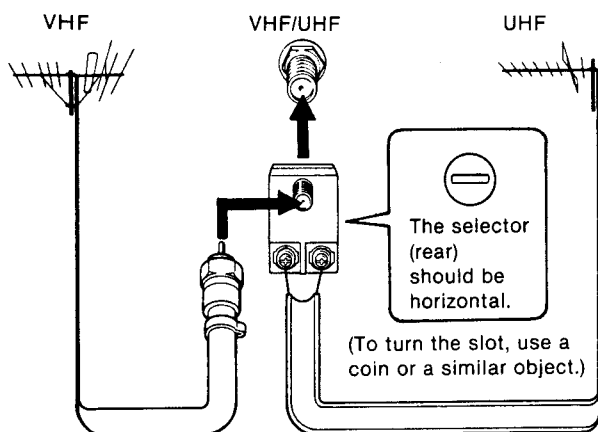


*Most combination antennas are equipped with a signal splitter. Take off the splitter and attach the proper connector.

B When both VHF and UHF antennas are connected

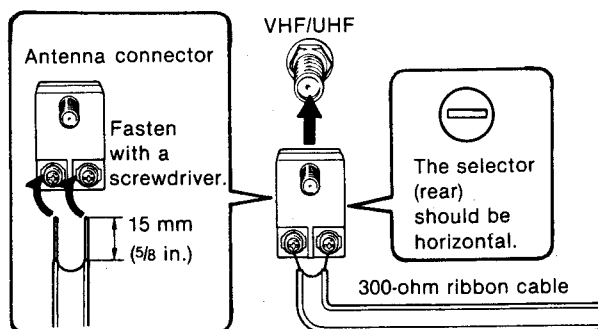
Prepare the VHF antenna end using the appropriate connector as illustrated in A.

Attach the supplied antenna connector to the TV antenna terminal, and connect the cables to the connector. (For UHF, see C.)



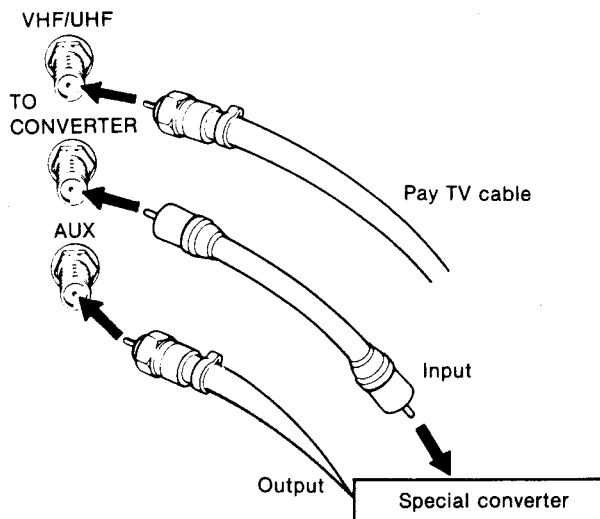
When the cable is connected to the TV in this way, snow and noise may appear in the pictures of the cable TV channels over 37 (W+1).

C UHF antenna only



D Cable with a special converter (decoder)

Pay cable TV systems use scrambled or encoded signals and require special converters (decoders)* in addition to the normal cable connection. Connect the converter (decoder) with a 75-ohm coaxial cable (optional).

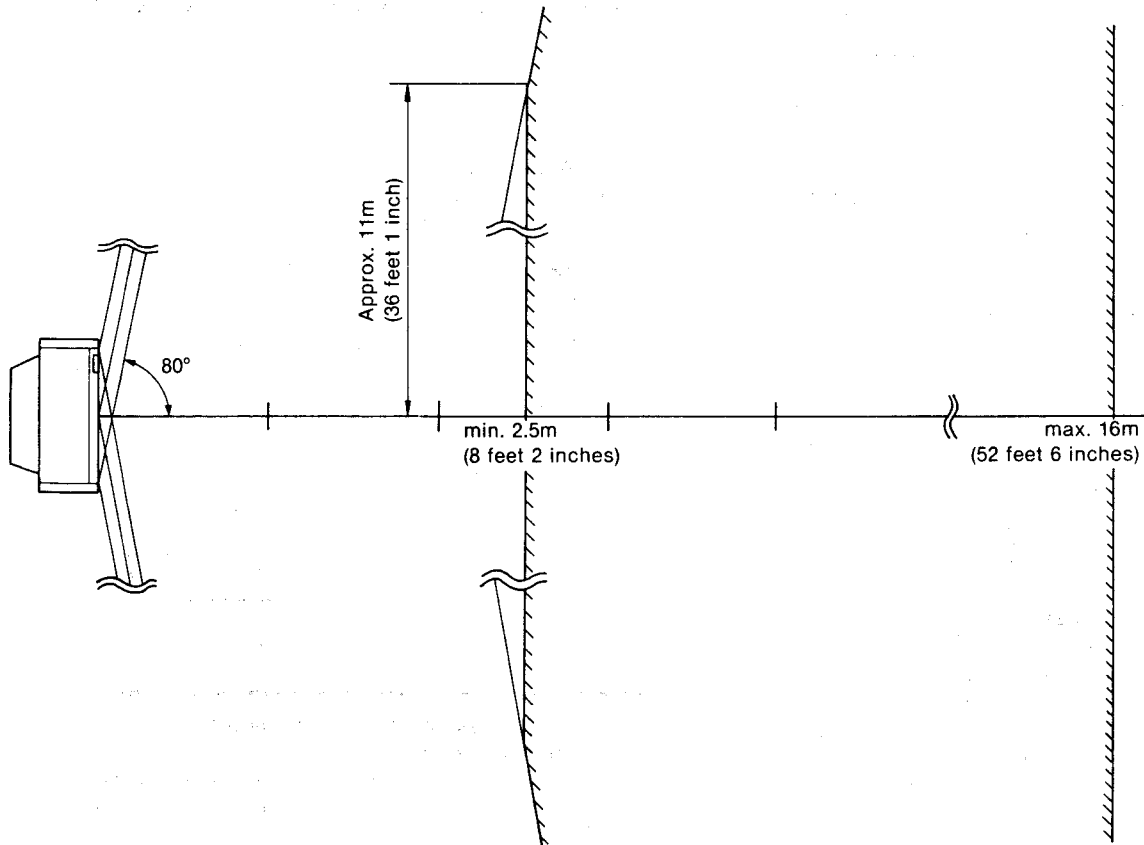
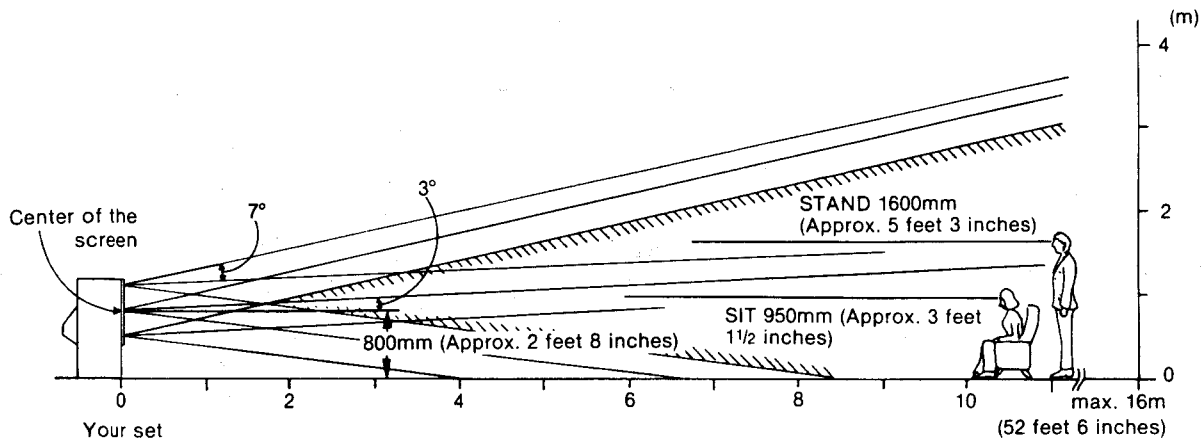


* The special converter (decoder) will be supplied by the cable company.

Note to CATV system installer in the USA:

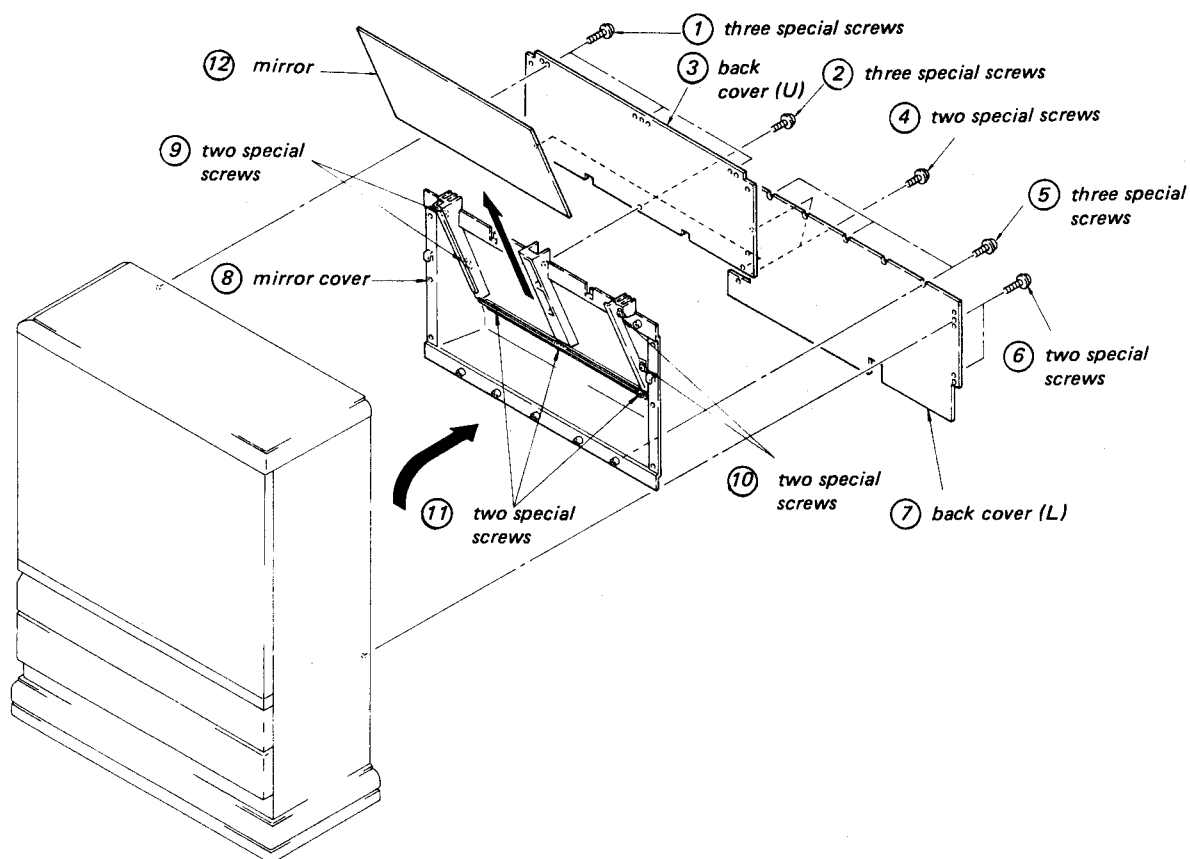
This reminder is provided to call the CATV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

1-11. NOTICE ON AUDIENCE AREA

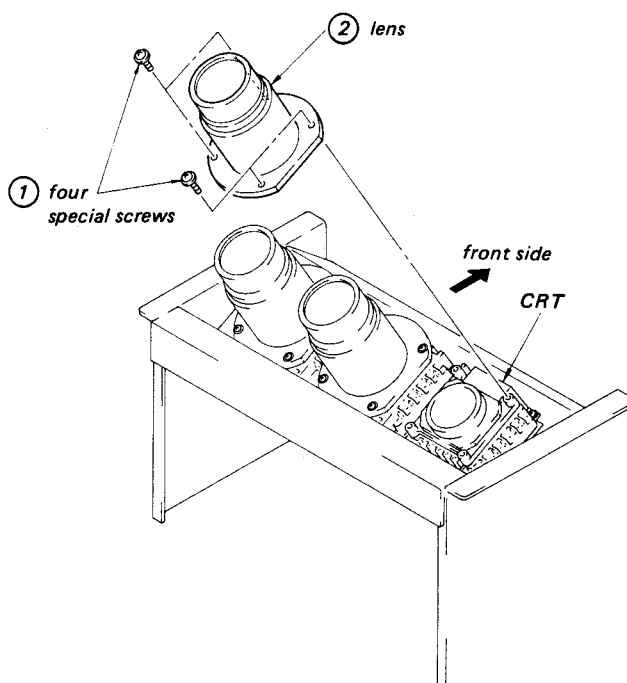


SECTION 2 DISASSEMBLY AND REPLACEMENT

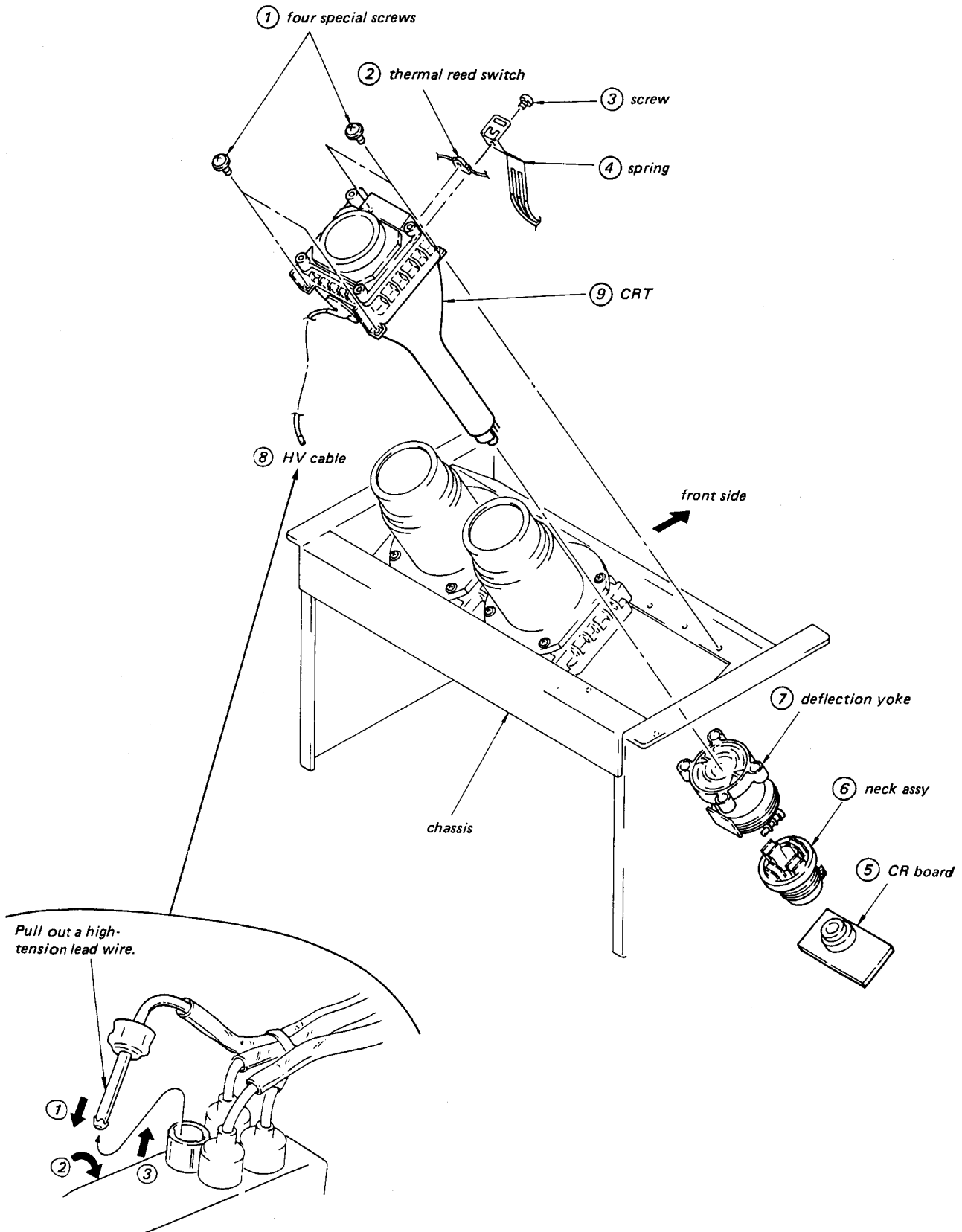
2-1. MIRROR REMOVAL



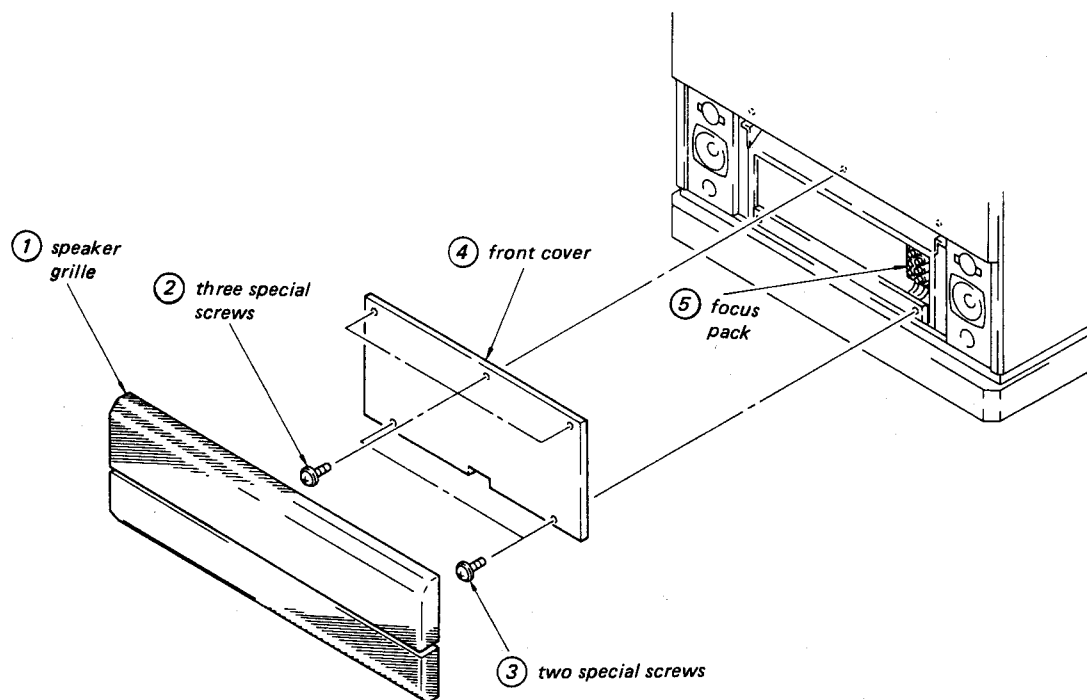
2-2. LENS REMOVAL



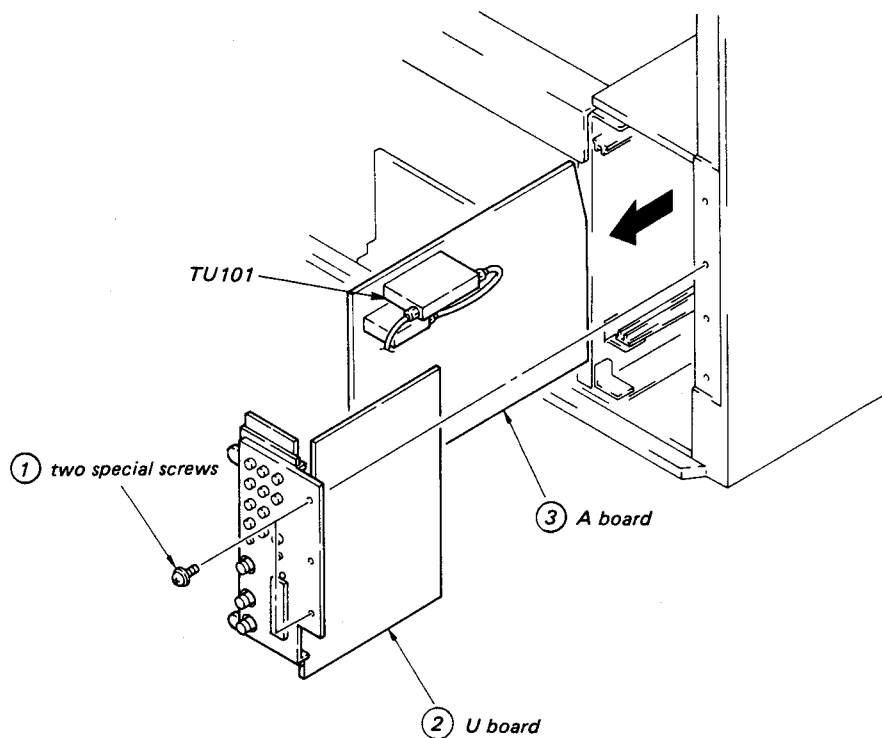
2-3. CRT REMOVAL



2-4. FOCUS PACK ADJUSTMENT



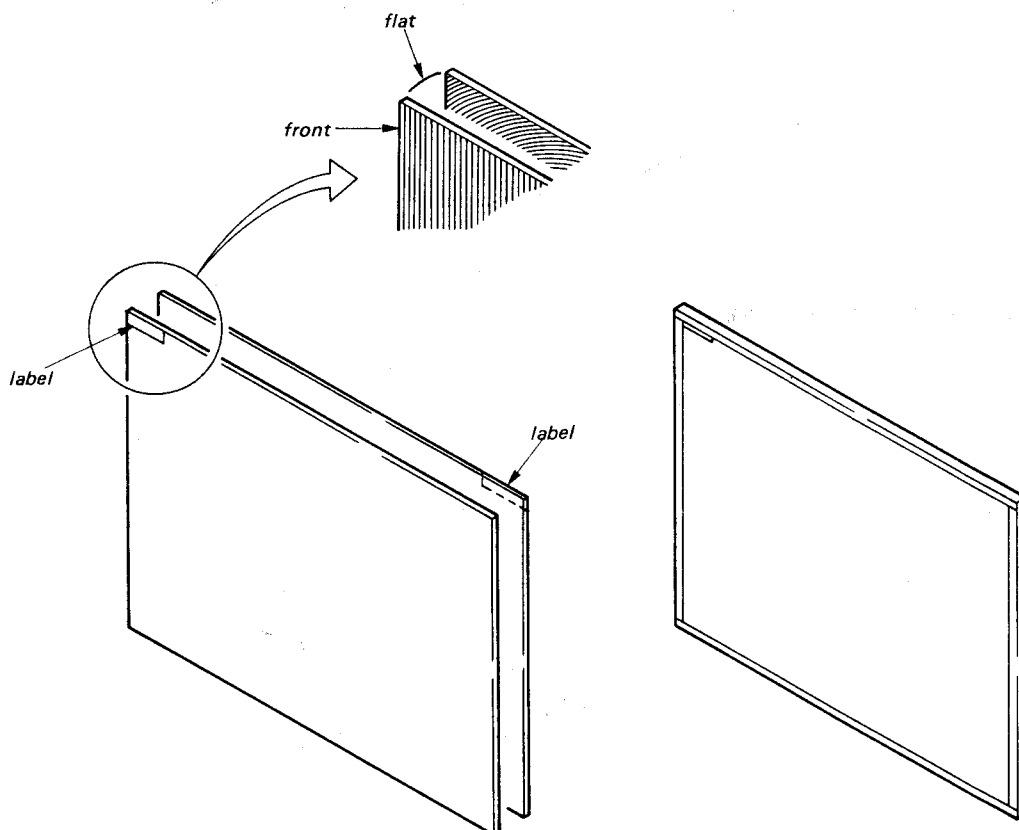
2-5. CHECKING FOR U AND A BOARD UP



2-6. LENS ASSEMBLY METHOD

This set has a lens consisting of two lenses. The front and rear lenses both have face and back sides and top and bottom positions and do not perform properly unless they are assembled correctly. When changing the lenses, read the following carefully and assemble the lenses correctly.

1. The lens top and bottom positions can be distinguished by the labels. Assemble the front and rear lenses facing the labels upward.
2. The front side has vertical stripes. Face the back side of it with the side, whose surface is coarse, of the rear lens. Tape the four corners of the lenses thoroughly without leaving untaped portions on them using an adhesive tape (Part No. 7-632-663-00). When taping, be sure to align the corners accurately so that no steps are left on the taped sides.



SECTION 3 ADJUSTMENTS

3-1. SETUP ADJUSTMENTS

3-1-1. Adjustment of Defocus Magnet

1. Adjustment (blue) of Defocus Fourpoles Magnet

1. Receive all white signal.
2. Set PICTURE to maximum, and set BRIGHTNESS to 50%.
3. After adjusting the fourpoles magnet as shown in Fig. 1, adjust the Blue Focus VR of the focus pack to have the yellow ring similar to Fig. 2.
4. Rotate the fourpoles magnet to the erasing point of the yellow ring. (90° rotation)

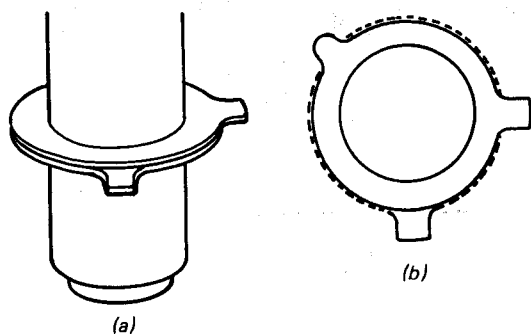


Fig. 1

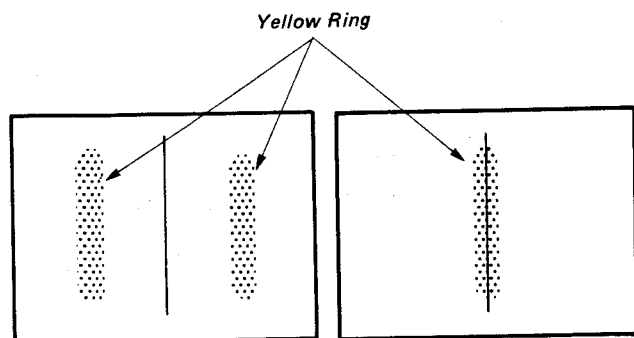


Fig. 2

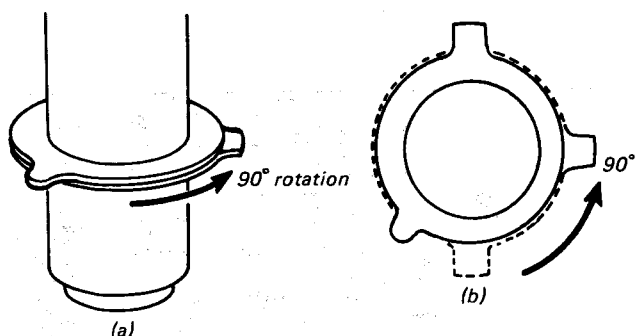


Fig. 3

2. Adjustment (red, green) of fourpoles magnet spot adjustment

1. Dot signal is received.
2. Set PICTURE to maximum, and set BRIGHTNESS to 50%.

3. Rotate the Red Focus VR of the focus pack clockwise, and defocus the SPOT as shown in Fig. 4. (So it stands out in the center of the screen.)

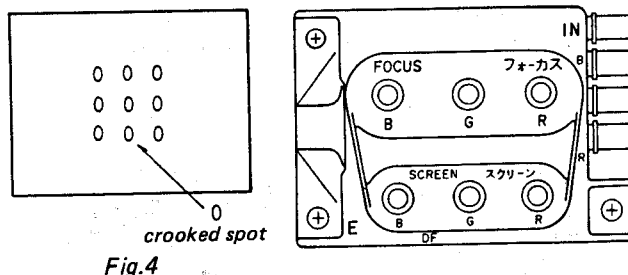


Fig. 4

4. Make the SPOT round by adjusting the fourpoles magnet for SPOT adjustment. (See Fig. 5.)

Note: Adjust the fourpoles magnet by closing and opening the upper and lower magnet layers while rotating it left and right to make the SPOT round.

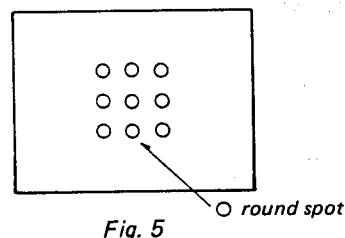


Fig. 5

5. After the SPOT becomes round, adjust the Red Focus VR of the focus pack to Just.
6. For green, repeat steps 3 to 5 in the same way.
7. Do paint lock.

3-1-2. FOCUS ADJUSTMENT

1. Check that VR of the D Board (registration adjustment) and VR (CENT) are at the mechanical center.
2. Rotate H. SHIFT VR (RV6005) on the D board to adjust the LEFT maximum.
3. Set the centering Mg mounted on the neck ass'y (RGB) to 0 magnetic field. (See Fig. 6.)

- ① Slide deflection yoke forward as far as it will go.
- ② Side neck assembly to touch the deflection yoke.

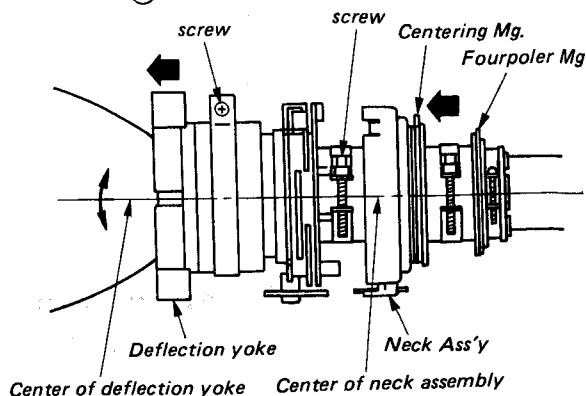
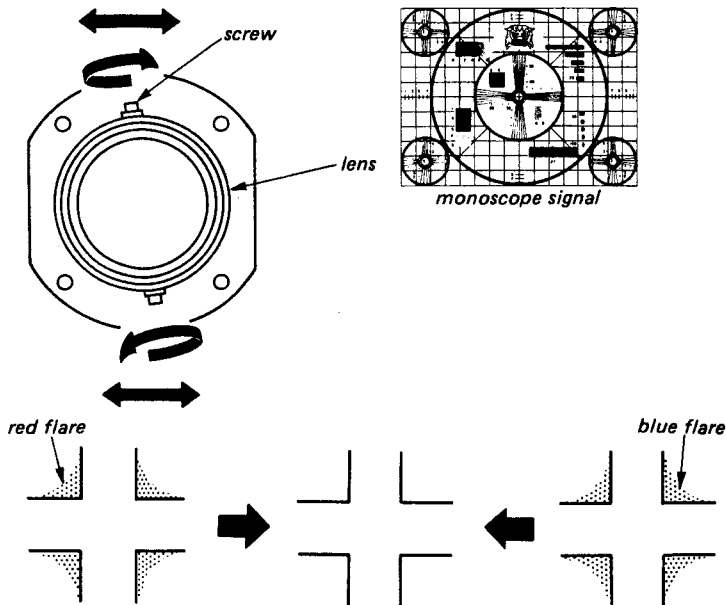


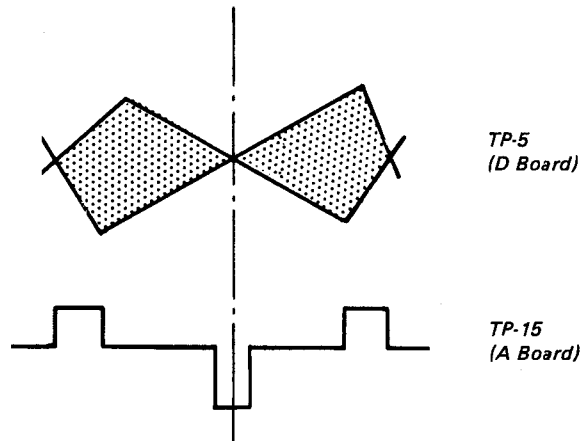
Fig. 6

- Input a monoscope signal and make rough adjustment of WB at BRT 50% and PIX 0%.
- Set BRT and PIX maximum and change the NOR/TEST switch to TEST and HATCH/BAR select switch to HATCH to show cross hatch.
- Cover a lens cap on the red and blue lenses and project green only.
- Rotate the green lens and adjust to obtain the best lens focus.

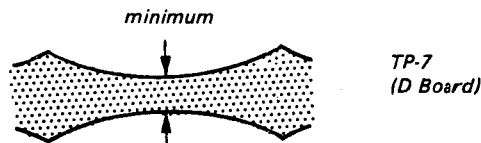


3-1-3. REGISTRATION INITIAL SETTING

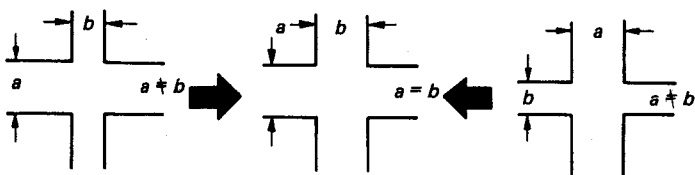
- Set the NOR/TEST switch to TEST and HATCH /BAR switch to BAR (on the D board).
- Connect an oscilloscope to TP-5 (key waveform) on the D Board and to TP-15 (G-OUT) on the A Board.
- Rotate RV6034 on the D Board to adjust the centers of the KEY and G-OUT waveforms to match.



- Connect the oscilloscope to TP-7 (H, pin) on the D Board and adjust RV6035 to minimize the amplitude at the center of the waveform.

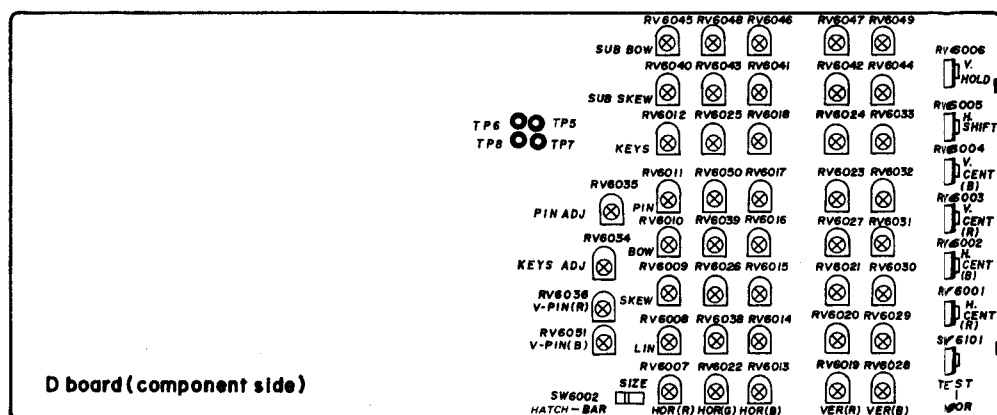


- Rotate the GREEN FOCUS VR of the focus pack and adjust to obtain the best electric focus.



- Repeat Steps 6. and 7., track, then adjust to obtain the best focus.
- Tighten the green lens screw and fix the lens.
- Adjust the red and blue focuses similarly.

- RV6034 and RV6035 absolute should not be rotated hereafter.



3-1-4. GREEN PICTURE ADJUSTMENT

1. Input a monoscope signal.
2. Cover a lens cap on the red and blue lenses and project green only.
3. Adjust the green deflection yoke to make the monoscope horizontal center line horizontal, then fix the deflection yoke. Adjust the green neck ass'y to obtain a match with the green deflection yoke center and fix it. (See Fig. 7.)

- ① Slide deflection yoke forward as far as it will go.
- ② Side neck assembly to touch the deflection yoke.

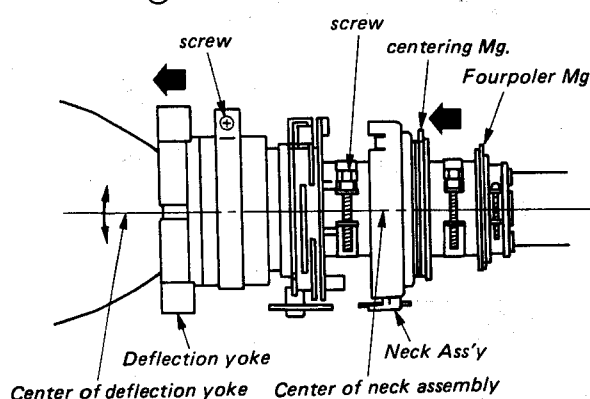
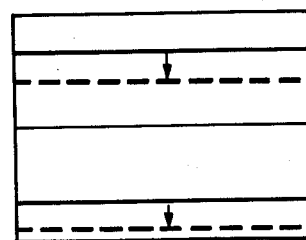
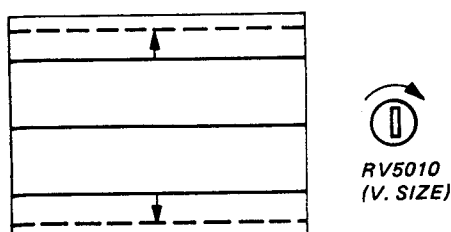
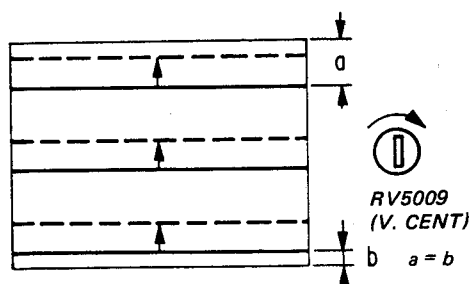
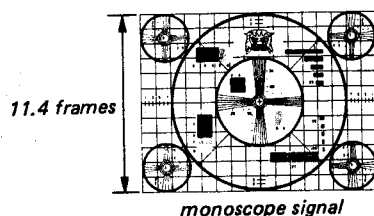
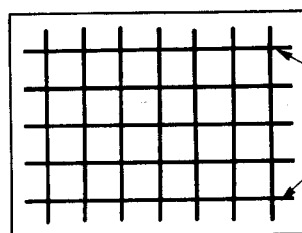


Fig. 7

4. Rotate RV5008 (V LIN) on the E Board to obtain the best linearity in the V direction. Rotate RV5010 (V SIZE) to adjust the V size to 11.4 frames and rotate RV5009 (V CENT) to adjust the V center to the screen center.

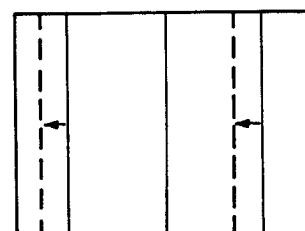
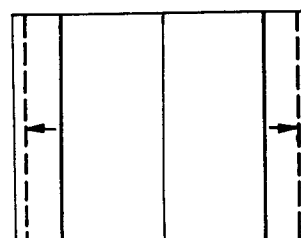
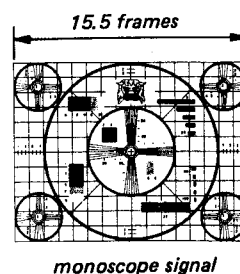


5. Check that the horizontal lines at the top and bottom edges of the monoscope hatch are horizontal and straight. (Adjust any distortion with the pin correction Mg mounted on the deflection yoke.)

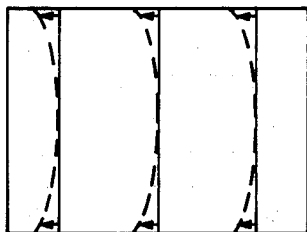


Check that the two horizontal lines at top and bottom are horizontal and straight.

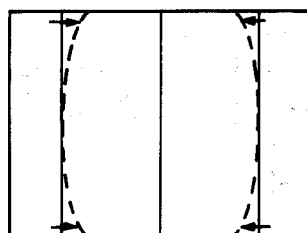
6. Rotate RV6038 (H LIN G) on the D Board to obtain the best linearity in the H direction, rotate RV6022 (H SIZE) to adjust the H size to 15.5 frames, then match the H center to the screen with the Centering Mg of G DY.



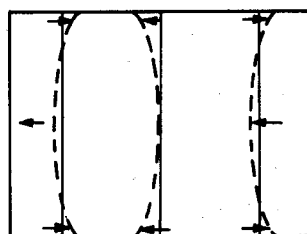
7. Set the NOR/TEST selector switch to TEST and HATCH/BAR selector switch to HATCH. Rotate RV6039 (H BOW G), RV6050 (H PIN G), and RV6048 (H SUB BOW G) to adjust as shown below.



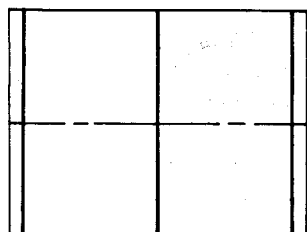

RV6039
(H. BOW)




RV6050
(H. PIN)



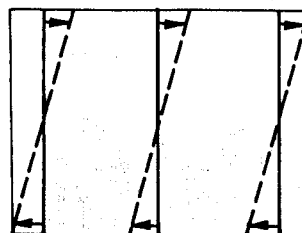

RV6048
(H. SUB BOW)



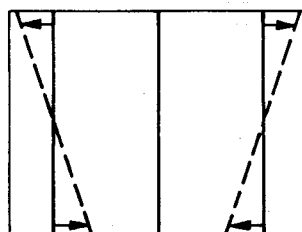
8. Correct tilting of the vertical center line using RV6026 (H SKEW G) and make the line perpendicular.

Rotate RV6025 (H KEY S G) to correct the tilting at both left and right edges to be in the same direction and in the same quantity. Rotate RV6043 (H SUB SKEW G) to correct the tilting of the left, right, and center vertical lines to be in the same direction and same quantity.

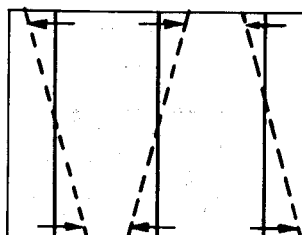
Rerotate RV6026 (H SKEW G) to eliminate tilting of all the vertical lines.



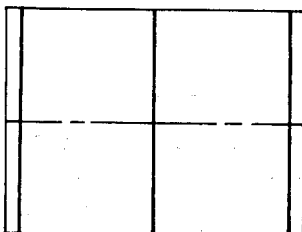

RV6026
(H. SKEW)




RV6025
(H. KEY S)

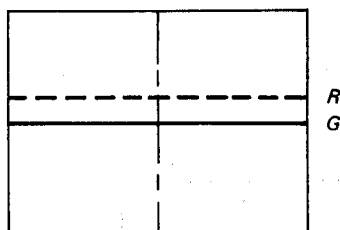



RV6043
(H. SUB SKEW)

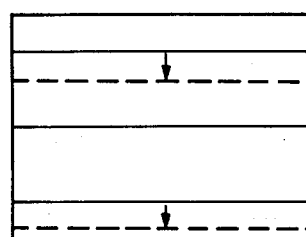
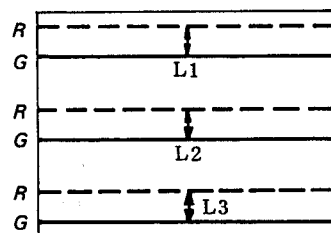


3-1-5. GREEN AND RED VERTICAL REGISTRATION

1. Cover a lens cap on the blue lens and receive a monoscope signal.
2. Operate the CENT MG of the red DY to match the red monoscope center nearly to the center of the green monoscope.
3. Set the NOR/TEST select switch to TEST and HATCH/BAR to HATCH, rotate the red DY so that the horizontal center lines of green and red match, then fix the red DY.



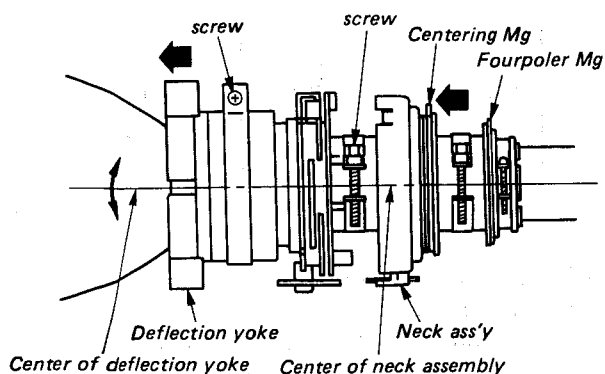
6. Rotate RV6020 (V LINE R) on the D Board to equalize the slip quantities of the red and green horizontal lines.



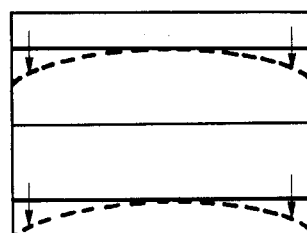
4. Align the red neck ass'y center to the red DY center and fix.

① Slide deflection yoke forward as far as it will go.

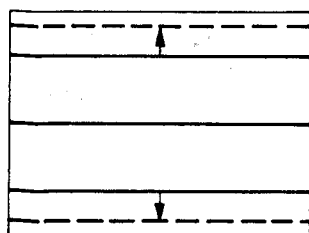
② Side neck assembly to touch the deflection yoke.



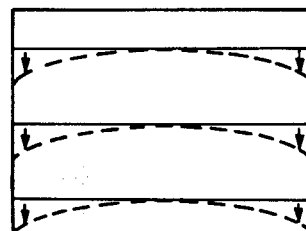
7. Align the red and green horizontal lines with the Centering Mg.
8. Rotate RV6047 (V SUB BOW R) on the D Board to adjust the red horizontal lines in the same direction and quantity relative to the green horizontal lines. (Top and bottom edges.)



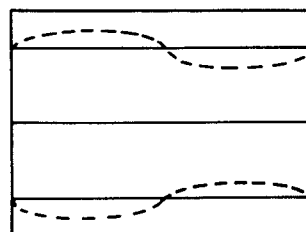
5. Rotate RV6019 (V SIZE R) on the D Board to slightly reduce the vertical width of the picture.



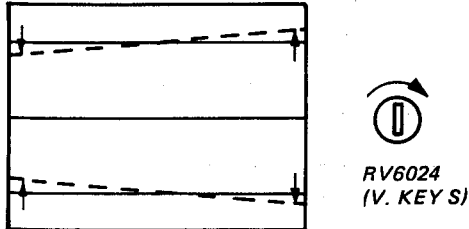
9. Rotate RV6027 (V BOW R) on the D Board to overlap the green and red horizontal lines.



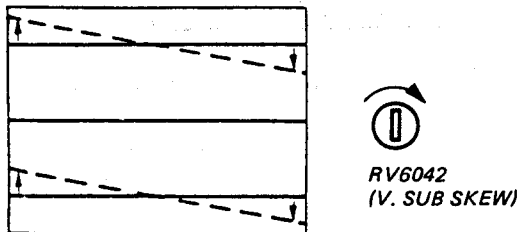
- 10) Rotate RV6023 (V WAVE R) on the D Board to overlap the green and red horizontal lines.



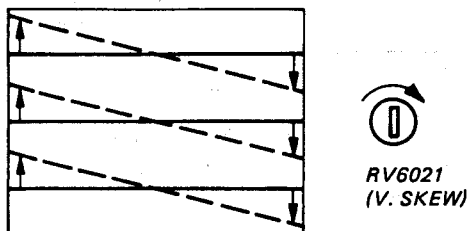
11. Rotate RV6024 (V KEY S R) on the D Board to adjust tilting of the red horizontal lines relative to the green horizontal lines at the top and bottom edges.



12. Rotate RV6042 (V SUB SKEW R) to equalize the tilting of the red horizontal lines relative to the green horizontal lines in top, bottom, and center.



13. Rotate RV6021 (V SKEW R) to make the red horizontal lines parallel to the green horizontal lines.

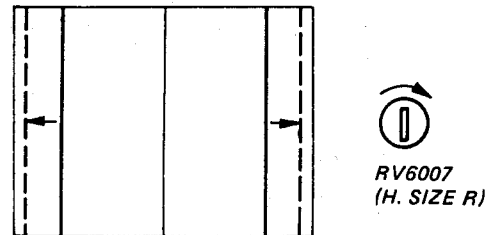


14. Repeat Steps 5, 6, and 7.

If the horizontal lines at the top and bottom edges do not align after trying, make a fine adjustment using the pin correction Mg mounted on the red DY.

3-1-6. GREEN AND RED HORIZONTAL REGISTRATION

1. Rotate RV6007 (H SIZE R) to slightly reduce the left and right widths of the picture.



2. Rotate RV6008 (H LINE R) to equalize the slip quantities of the red and green vertical lines.

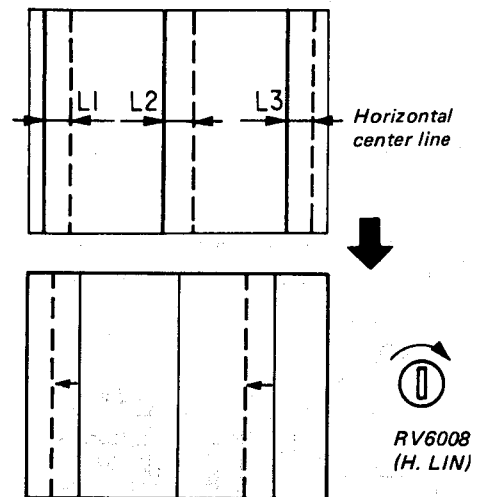
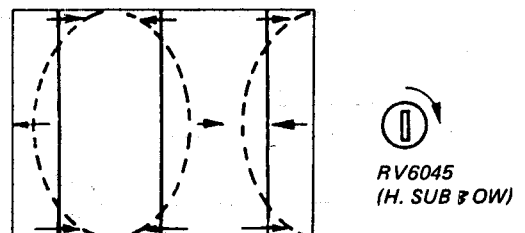
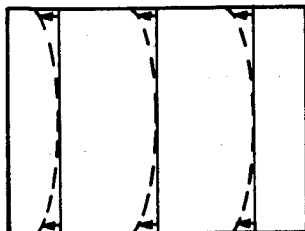


图 3 6-2

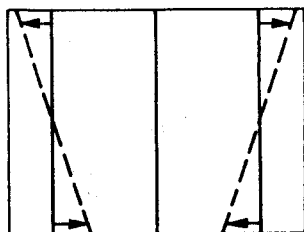
3. Align the red and green vertical lines using Centering Mg (R).
4. Rotate RV6045 (H SUB BOW R) to equalize the directions and quantities of the green and red vertical lines.



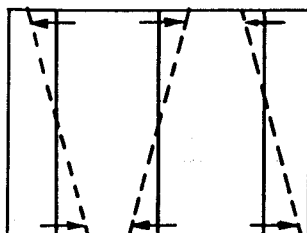
5. Rotate RV6010 (H BOW R) to overlap the green and red horizontal lines.



6. Rotate RV6012 (H KEYS R) to adjust tilting of the red vertical lines relative to the green vertical lines at left and right edges.

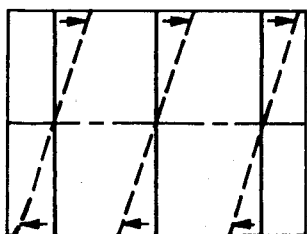


7. Rotate RV6040 (H SUB SKEW R) to adjust tilting of the red vertical lines relative to green vertical lines at left, right, and center.



RV6040
(H. SUB SKEW)

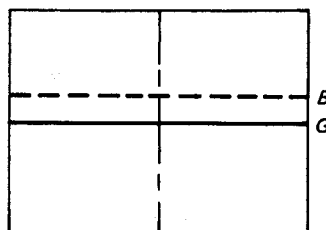
8. Rotate RV6009 (H SKEW R) to make the red and green vertical lines parallel.



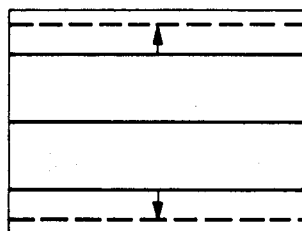
9. Repeat Steps 1, 2 and 3.

3-1-7. GREEN AND BLUE VERTICAL REGISTRATION

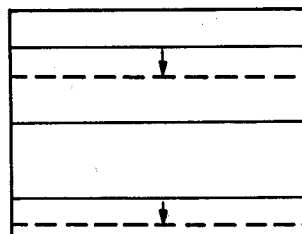
- 1) Cover a lens cap on the red lens and receive a monoscope signal.
- 2) Rotate the blue DY. Centering Mg to align the blue monoscope center nearly to the green monoscope center.



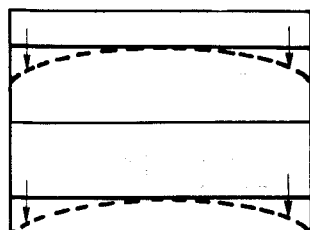
- 3) Set the NOR/TEST selector switch to TEST and HATCH/BAR switch to HATCH, rotate the blue DY to align the horizontal center lines of green and blue, then fix the blue DY.
- 4) Align the blue neck ass'y center to the blue DY center and fix them.
- 5) Rotate RV6028 (V SIZE B) to slightly reduce the widths at top and bottom of the picture.



- 6) Rotate RV6029 (V LINE B) to equalize the slip quantities of the blue and green horizontal lines.

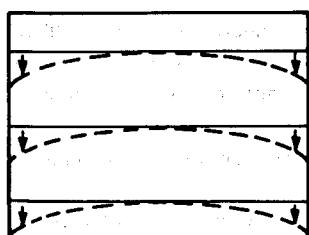


- 7) Rotate the Centering Mg (B) to align the blue and green horizontal lines.
- 8) Rotate RV6049 (V SUB BOW B) to make the directions and quantities of the blue and green horizontal lines equal.



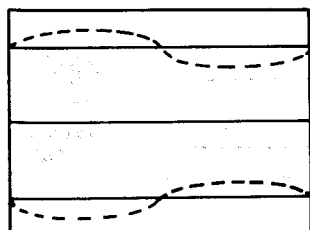

RV6049
(V SUB BOW)

- 9) Rotate RV6031 (V BOW B) to overlap the green and blue horizontal lines.



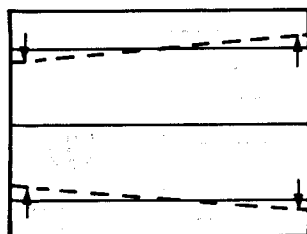

RV6031
(V BOW)

- 10) Rotate RV6032 (V WAVE B) on the D Board to overlap the green and red Horizontal lines.



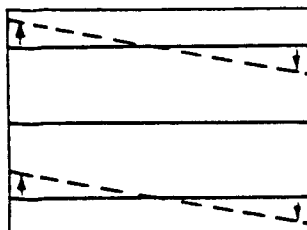

RV6032
(V. WAVE)


- 11) Rotate RV6033 (V KEYS B) to adjust tilting of the blue horizontal lines relative to the green horizontal lines at top and bottom.



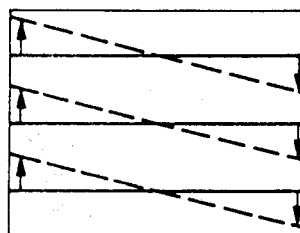

RV6033
(V KEY S)

- 12) Rotate RV6044 (V SUB SKEW B) to equalize tilting of the blue horizontal lines relative to the top, bottom, and center green horizontal lines.




RV6044
(V. SUB SKEW)

- 13) Rotate RV6030 (V SKEW B) to make the blue and green horizontal lines parallel.

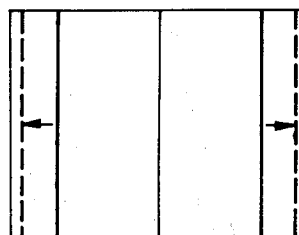



RV6030
(V SKEW)

- 14) Repeat 5), 6), and 7).

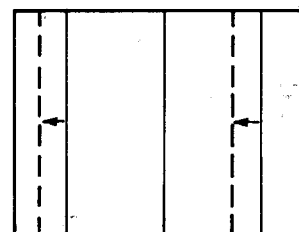
3-1-8. GREEN AND BLUE VERTICAL REGISTRATION

- 1) Rotate RV6013 (H SIZE B) and slightly reduce the left and right widths of the pictures.



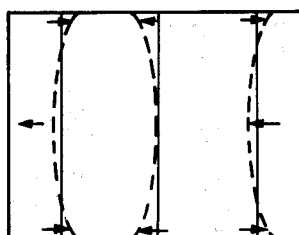

RV6013
(H SIZE)

- 2) Rotate RV6014 (H LIN B) to equalize the slip quantities of the blue and green vertical lines.



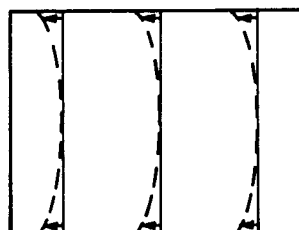

RV6014
(H LIN)

- 3) Align the blue and green vertical lines using the Centering Mg (B).
- 4) Rotate RV6046 (H SUB BOW B) to equalize directions and quantities of the green and blue vertical lines.



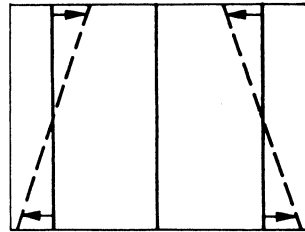

RV6046
(H SUB BOW)

- 5) Rotate RV6016 (H BOW B) to overlap and green and blue horizontal lines.



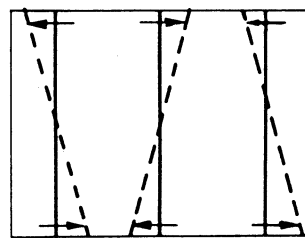

RV6016
(H BOW)

- 6) Rotate RV6018 (H KEYS B) to adjust tilting of the blue vertical lines relative to the green vertical lines at the left and right edges.



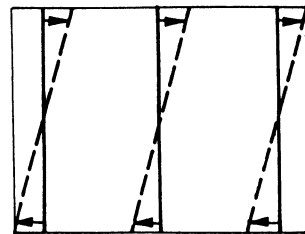
RV6018
(H KEYS)

- 7) Adjust tilting of the blue vertical lines relative to the left, right, and center green vertical lines by rotating RV6041 (H SUB SKEW B).



RV6041
(H SUB SKEW)

- 8) Rotate RV6015 (H SKEW B) to make blue and green vertical lines parallel.



RV6015
(H SKEW)

- 9) Repeat Steps 1, 2 and 3.

3-2. CIRCUIT ADJUSTMENTS

Note:

(1) TEST EQUIPMENT REQUIRED

1. Variable auto-transformer
2. Isolation transformer
3. Electrostatic voltmeter
or
Digital multimeter
(Capable of measuring voltage more than 1,100V).
4. Frequency counter
5. Color-bar/pattern generator
6. AF generator
7. Oscilloscope

(2) INPUT SIGNAL

When making these adjustments supply a white pattern, a color-bar or an off-air signal.

(3) CONTROLS AND SWITCHES SETTING

Controls and switches should be set as follows when making checks and adjustments unless otherwise noted.

PICTURE control
BRIGHT control
COLOR control } Set for best picture.
HUE control
V HOLD control
TEST/NORMAL switchNORMAL

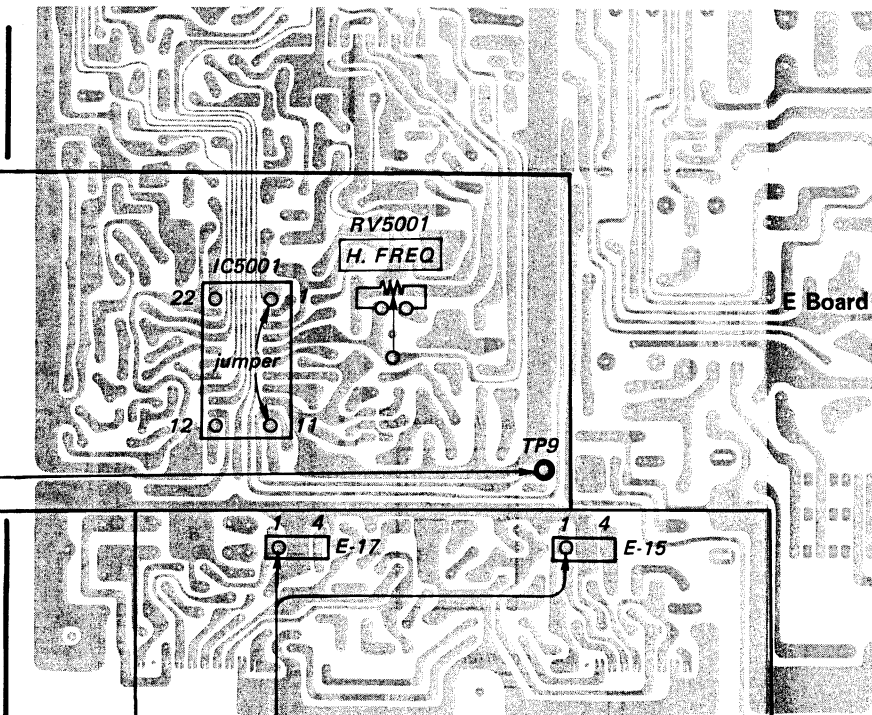
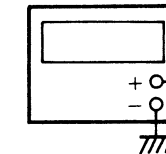
- (4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

3-2-1. E BOARD ADJUSTMENTS

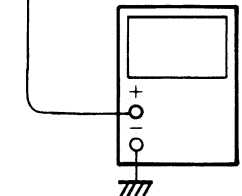
H FREQ. ADJUSTMENT

1. Short between Pins ① and ⑪ of IC5001 with a jumper wire.
2. Connect a frequency counter to TP-9 and adjust to $15.734\text{kHz} \pm \frac{40}{20}\text{Hz}$ using RV5001.

frequency counter



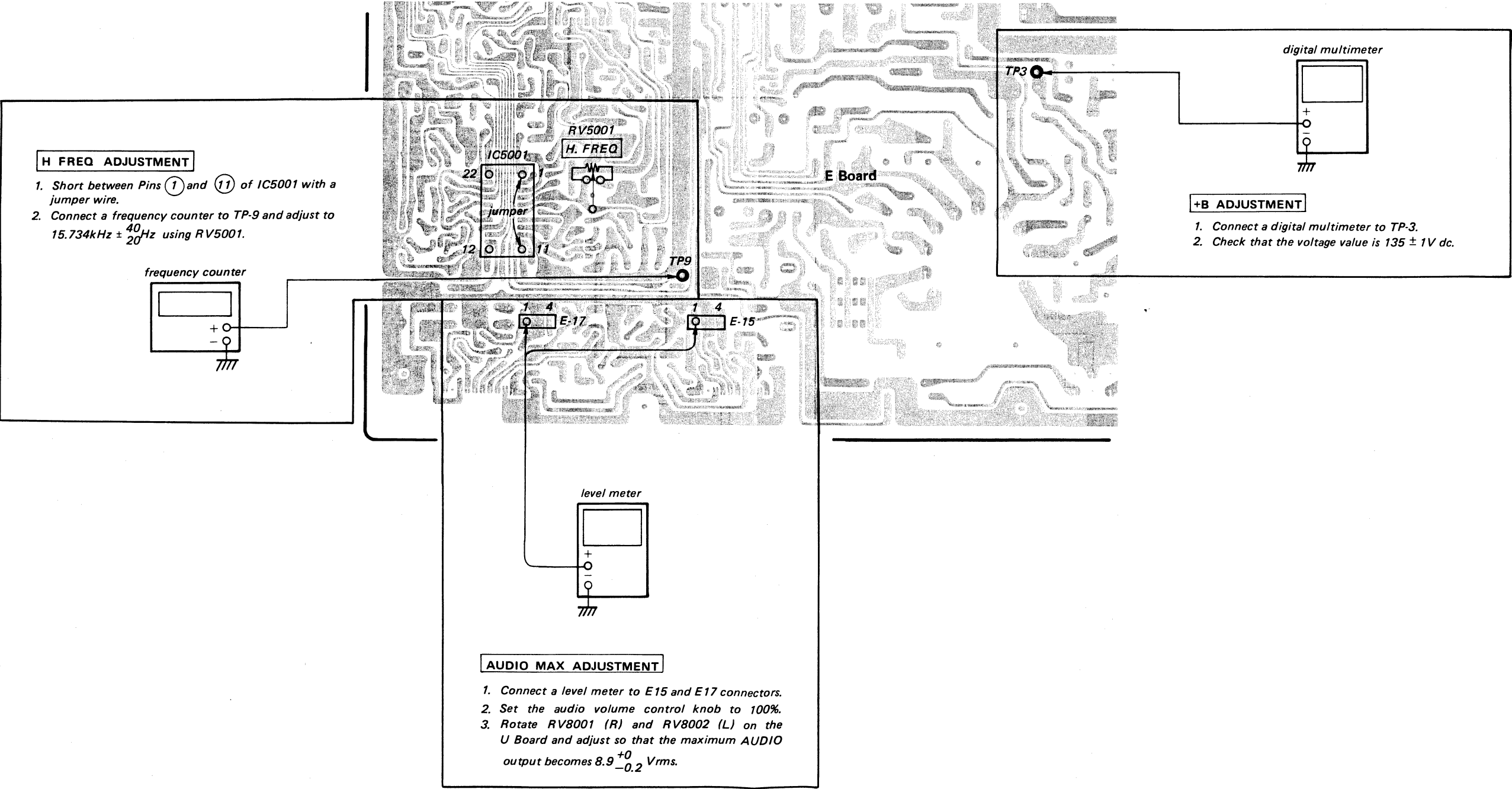
level meter



AUDIO MAX ADJUSTMENT

1. Connect a level meter to E15 and E17 connectors.
2. Set the audio volume control knob to 100%.
3. Rotate RV8001 (R) and RV8002 (L) on the U Board and adjust so that the maximum AUDIO output becomes $8.9 \pm 0.2\text{Vrms}$.

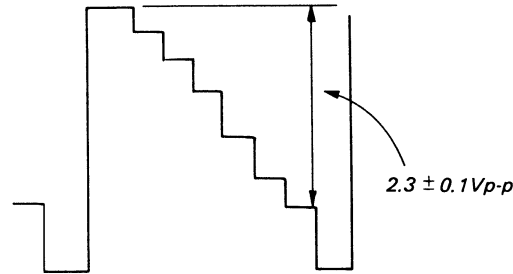
3-2-1. E BOARD ADJUSTMENTS



3-2-2. A BOARD ADJUSTMENTS

SUB CONTRAST ADJUSTMENT

1. Input a color bar signal.
2. Set PICTURE control to maximum and COLOR control to minimum.
3. Connect the oscilloscope (E) to Pin (17) of IC401.
4. Rotate RV302 to adjust the waveform of Pin (17) of IC401 as shown in the diagram.

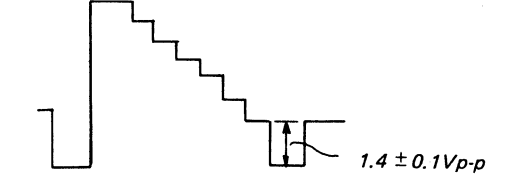


14.3MHz ADJUSTMENT

1. Receive a color bar signal.
2. Set HUE, COLOR, and PIC controls to 80%.
3. Connect Pin (30) of IC301 to the ground through a 10kΩ resistor.
4. Connect Pin (38) of IC301 to the +12V line through a 10kΩ resistor.
5. Short Pins (15) and (16) of IC301.
6. Connect a frequency counter to Pin (32) of IC301 and adjust to 3.579kHz ± 40Hz with CV316.

SUB BRT, G BIAS, AND R BIAS ADJUSTMENT

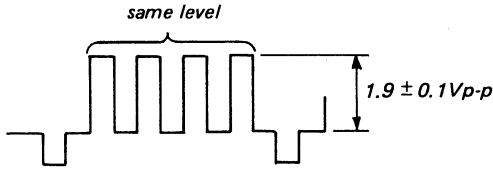
1. Input a color bar signal.
2. Set the PICTURE control switch to maximum, COLOR control switch to minimum, and BRIGHTNESS control switch to 50%.
3. Connect the oscilloscope (C) to Pin (17) of IC401.
4. Rotate RV406 (SUB BRT) to adjust the pedestal level of Pin (17) of IC401 to 1.4 ± 0.1V.



5. Connect the oscilloscope (C) to Pin (15) of IC401 and rotate RV408 (R BIAS) to adjust the pedestal level of the pin to the same value as that of the Q419 emitter (oscilloscope D).

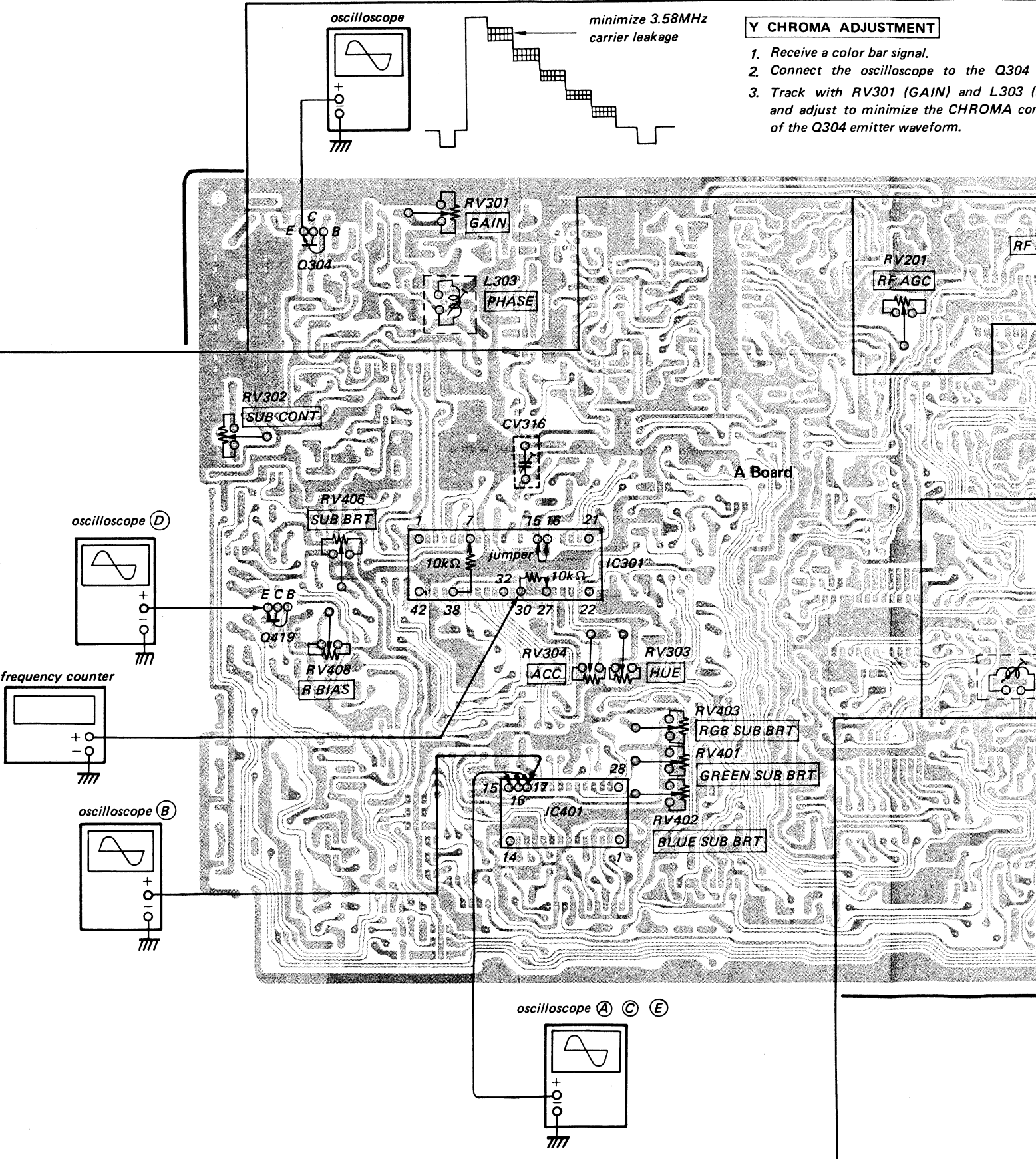
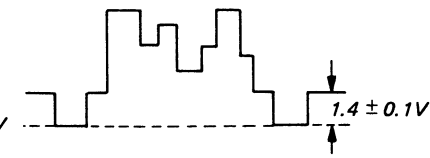
HUE CENT AND ACC ADJUSTMENT

1. Input a color bar signal.
2. Reset HUE and COLOR control and set PICTURE control to maximum.
3. Connect the oscilloscope (B) to Pin (17) of IC401.
4. Rotate RV304 (ACC) and RV303 (HUE) to adjust the waveform of Pin (17) of IC401 as shown in the diagram.
5. Check that the fourth pulse of the BLUE output is 1.9 ± 0.1Vp-p.



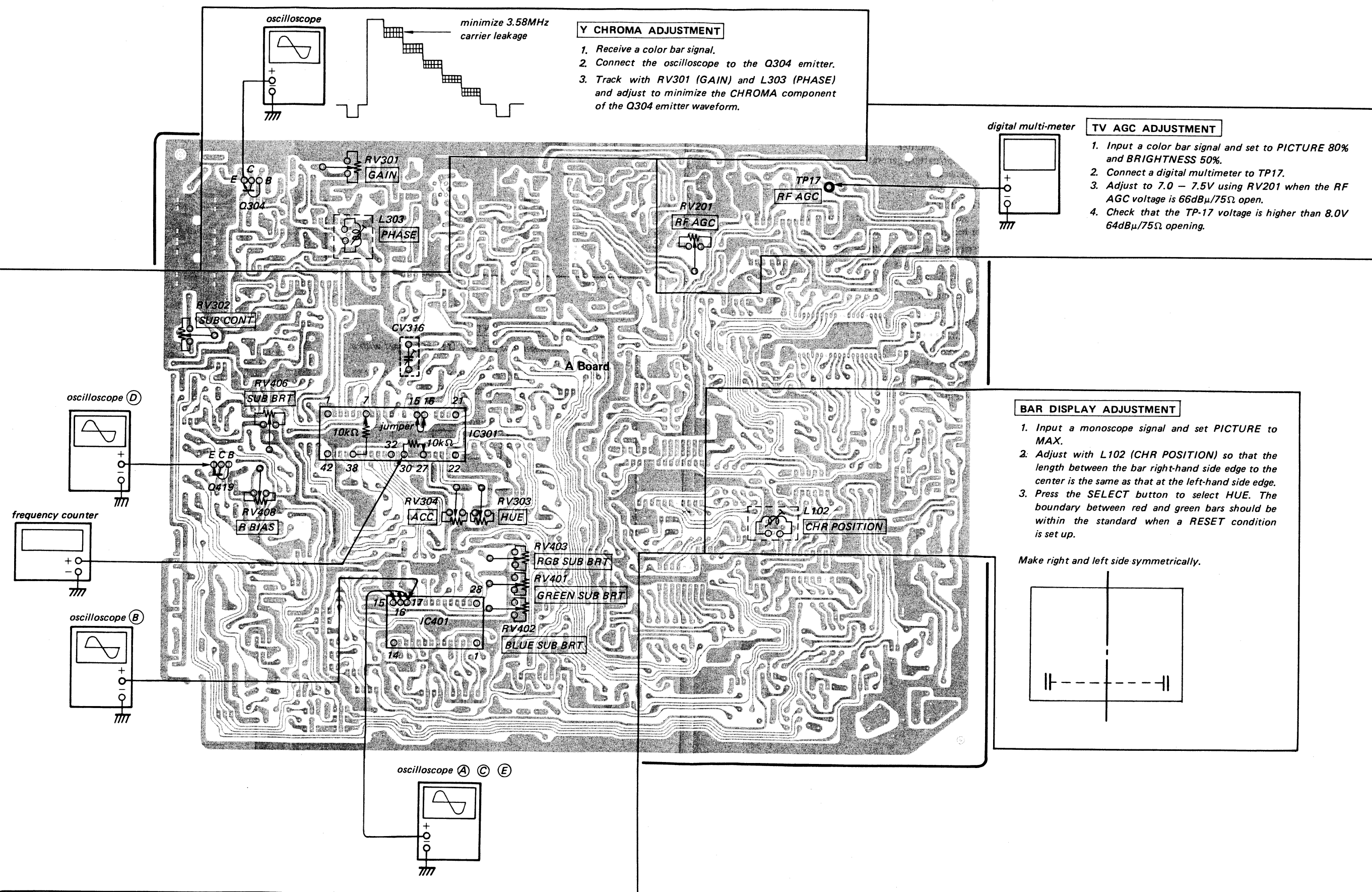
R. G. B PEDESTAL LEVEL ADJUSTMENT

1. Input analog R. G. B signal.
2. Set the mode to the R. G. B mode.
3. Connect the oscilloscope (A) to Pin (15) of IC401 and set the pedestal level to 1.4 ± 0.1V with RV403.
4. Connect the oscilloscope (A) to Pin (16) of IC401 and set the pedestal level to 1.4 ± 0.1V with RV401.
5. Connect the oscilloscope (A) to Pin (17) of IC401 and set the pedestal level to 1.4 ± 0.1V with RV402.



Y CHROMA ADJUSTMENT

1. Receive a color bar signal.
2. Connect the oscilloscope to the Q304 emitter.
3. Track with RV301 (GAIN) and L303 (PHASE) and adjust to minimize the CHROMA component of the Q304 emitter waveform.

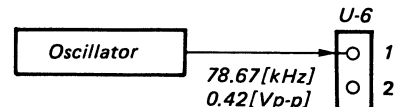


1. **Correct** an chemical **tw**een Pin **(1)** of IC881
2. **Correct** a frequency co
RV **851** and rotate RV
to **2.94 ± 0.1kHz**.

3-2-4. SAFETY RELATED ADJUSTMENTS

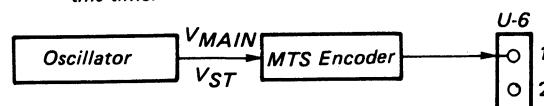
SAP VCO ADJUSTMENT

1. Input a sine wave of 78.67 [kHz] and 0.42 [Vp-p] to Pin ① of IC8810 from Pin ① of Connector U-6.
2. Change the voltage at Pin ⑭ of IC8810 to 9V. Check that the voltage at Pin ⑳ of IC8810 is $3.4 \pm 0.3V$ dc this time.
3. Lower the voltage at Pin ⑭ of IC8810 to the ground level. Rotate RV8811 to adjust the voltage at Pin ㉑ of IC8810 becomes $3.4 \pm 0.4V$ dc this time.



SEPARATION ADJUSTMENT

1. Input V_{MAIN} to Pin ① of Connector U-6.
2. Change voice to the MAIN mode operating on the operation panel.
3. Check that the level at Pin ㉓ of IC8810 is 480 ± 25 [mVrms].
4. Check that the level at Pin ㉒ of IC8810 is 480 ± 50 [mVrms].
5. Input a V_{ST} signal to Pin ① of Connector U-6.
6. Apply a sine wave of 300Hz and $-21.8dBs$ to Pin ㉔ of IC8810. Rotate RV8832 to adjust the level of Pin ㉓ of IC8810 to 120 ± 9.3 mVrms this time.



NOISE REDUCTION ADJUSTMENT

1. Connect a voltmeter to both ends of the resistor R8839 connected to Pin ⑬ of IC8811 and rotate RV8830 to adjust the voltage at both ends of the resistor to be 15.0 ± 1.0 mVdc.

VARIABLE DE-EMPHASIS ADJUSTMENT

1. Set RV8831 (VD ADJ) and RV8832 (SEPARATION) to the mechanical center.
2. Form a circuit as shown in the diagram and input a sine wave of 300Hz, $-24.3dBs$. Measure the level at Pin ㉗ of IC8810 this time (record as V1) and check that the level is $-24dBs$ < level of Pin ㉗ < $-18dBs$.
3. Change the signal of 2) to 8kHz, $-17.2dBs$. Measure the level of Pin ㉗ of IC8810 this time (record as V2) and rotate RV8831 (V. D ADJ) to adjust to obtain the following relationship:

$$V2 = V1 - 11.3 \pm 0.3 \text{ [dBs]}$$

STEREO VCO ADJUSTMENT

1. Connect an chemical capacitor (10μF/16V) between Pin ① of IC8810 and ground.
2. Connect a frequency counter between R8824 and RV8851 and rotate RV8851 (ST VCO) to adjust to 62.94 ± 0.1 kHz.

When replacing the following components, make the HV. adjustments.

E board complete

Deflection yoke

Switching regulator

FBT (T4)

L5004, L5005, L5010, C5037
C5038, C5039, C5058, C5059
C5060, C5064, C5119, R5066, R5096 } in E board

When replacing the following components, make the HV, HOLD DOWN adjustments.

HV BLOCK

E board complete

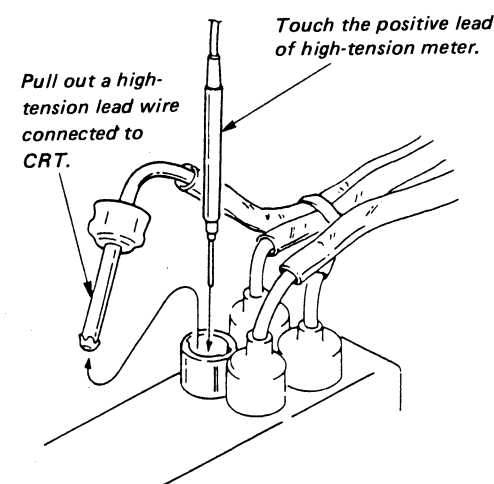
IC5001, Q5001, D5002, R5216
R5217, R5218, R5219, R5220
R5221, R5297, R5020, R5021
R5022, R5024, R5027 } in E board

+B MAX CHECK

Replace the SW. REG. confirm +B voltage.

If this not satisfied change the SW. REG.

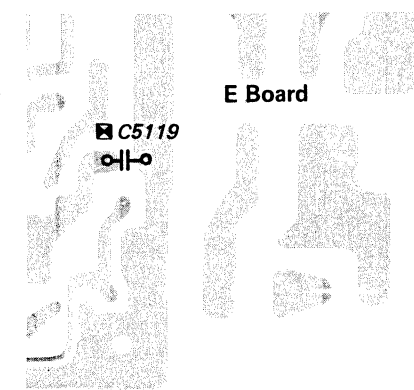
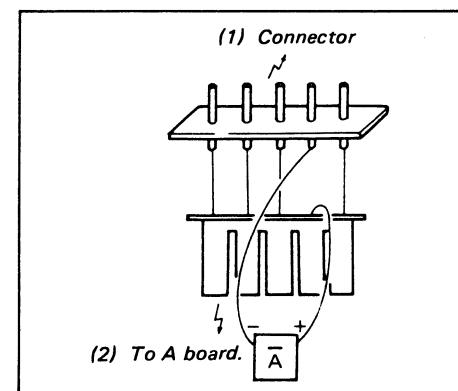
1. Supply 130V ac to with variable auto-transformer.
2. Feed in a dot signal.
3. Connect the digital multimeter to C56 plus side and set the power switch to ON.
4. Set the PICTURE and BRIGHTNESS control at minimam.
5. Confirm the voltage on digital multimeter is less than 136V dc.



(1) When a high tension meter is available.

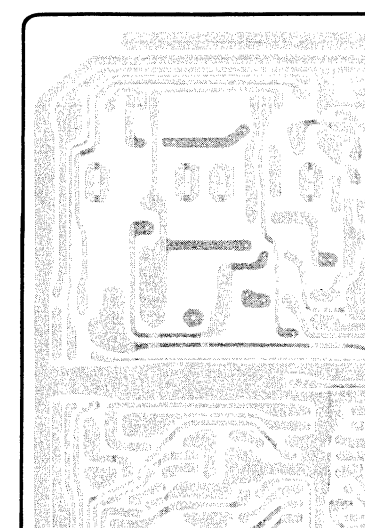
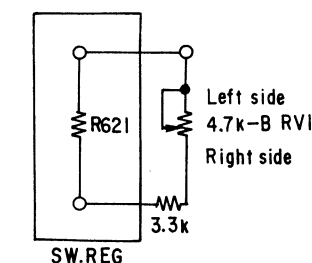
HV ADJUSTMENT (R5217, R5218)

1. Confirm that the POWER switch is in OFF position.
2. Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.
3. Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.
4. Feed in a dot pattern from a color-bar/pattern generator and supply 120V ac to with variable auto-transformer.
5. Disconnect A-21, A-22 and A-23 connector from A board.
6. Turn the POWER to ON and confirm the raster disappears.
7. Confirm that there is less than 33.90 kV on high tension meter.
8. Turn the POWER switch to OFF and connect the A-21, A-22 and A-23 of A board.
9. Turn the POWER switch to ON and feed in a monoscope pattern.
10. Adjust the PICTURE and BRIGHT control so that IABL $1550 \pm 100\mu A$.
11. Confirm that there is less than 32-10 kV on high tension meter.
12. If necessary, select C5119 and repeat above steps.
13. Turn the POWER switch to OFF.



HV HOLD DOWN ADJUSTMENT (R5217, R5218)

1. Confirm that the POWER switch is in OFF position.
2. Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.
3. Mount ceramic capacitor (470pF) to C5119 of E board.
4. Disconnect A-21, A-22 and A-23 connector of A board.
5. Remove the SW. REG and take off G board.
6. Remove R620 and R621 of G board.
7. Install the tool shown in the figure.
8. Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.
9. Feed in a dot pattern from a color-bar/pattern generator.
10. Supply 120V ac to with variable auto-transformer.
11. Turn the POWER switch to ON.
12. Adjust RV1, so that HV HOLD DOWN circuit operate.
13. Confirm that the POWER is automatically turned off just when the voltage on the high tension meter is less than 34.65kV (When the raster disappears) if this not satisfied select the R5217 and R5218.
14. Turn the POWER switch to OFF and feed in a monoscope pattern.
15. Turn RV1 to counterclockwise and connect A-21, A-22 and A-23 connector for A board.
16. Turn the POWER switch to ON and set the PICTURE and BRIGHT control at max.
17. Adjust RV1 so that HV HOLD DOWN circuit operate.
18. Confirm that there is less than 33.10kV and IABL is $1650 \pm 100\mu A$.
19. Turn the POWER switch to OFF.
20. Disconnect the high tension meter and DC ammeter.
21. Remove the tool and mount R620 and R621.



(2) When a high tension meter is not available.

HV ADJUSTMENT (R5217, R5218)

1. Check if the POWER SW in OFF.
2. Mount the 680pF/2 kV ceramic capacitor on E board's C5119. If the capacitor is already mounted on C5119, mount the 680pF/2 kV ceramic capacitor in parallel with the C5119.

HV HOLD DOWN ADJUSTMENT (R5217, R5218, C5119)

1. Open the front registration panel, and set NOR/TEST selector to TEST. The built-in pattern will then be received.
2. Set the user's control to RESET, and set TURE to 80%.
3. Check if the synchronization of the screen play is normal. If the synchronization is adjust by the RV5001 on the E board.
4. The resistance of the E board's R5217 R5218 increases steadily and the HV HOLD DOWN circuit operates. Select the resist which clears the screen display.
5. Mount two 680pF/2 kV ceramic capacitor parallel with the E board's C5119. If it cannot be mounted normally, mount it the back of the board.

FETY RELATED ADJUSTMENTS

icing the following components, make
stments.

plete
oke
gulator

05, L5010, C5037
39, C5058, C5059
64, C5119, R5066, R5096 } in E board

icing the following components, make
LD DOWN adjustments.

plete
001, D5002, R5216
18, R5219, R5220
97, R5020, R5021
24, R5027 } in E board

HECK

SW. REG. confirm +B voltage.

satisfied change the SW. REG.

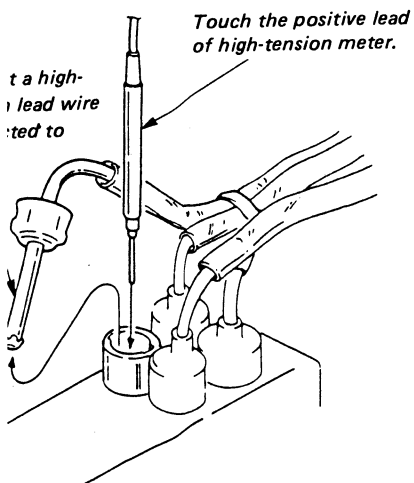
y 130V ac to with variable auto-trans-
r.

n a dot signal.

ct the digital multimeter to C56 plus side
t the power switch to ON.

e PICTURE and BRIGHTNESS control at
am.

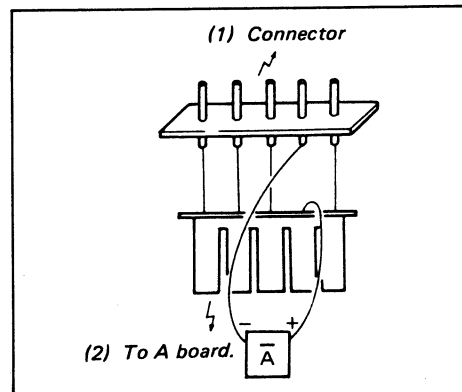
m the voltage on digital multimeter is
an 136V dc.



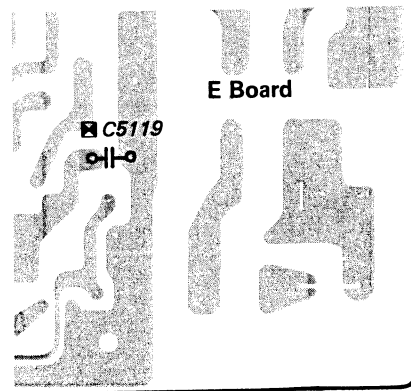
(1) When a high tension meter is available.

HV ADJUSTMENT (R5217, R5218)

1. Confirm that the POWER switch is in OFF position.
2. Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.
3. Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.
4. Feed in a dot pattern from a color-bar/pattern generator and supply 120V ac to with variable auto-transformer.
5. Disconnect A-21, A-22 and A-23 connector from A board.
6. Turn the POWER to ON and confirm the raster disappears.
7. Confirm that there is less than 33.90 kV on high tension meter.
8. Turn the POWER switch to OFF and connect the A-21, A-22 and A-23 of A board.
9. Turn the POWER switch to ON and feed in a monoscope pattern.
10. Adjust the PICTURE and BRIGHT control so that $I_{ABL} 1550 \pm 100\mu A$.
11. Confirm that there is less than 32-10 kV on high tension meter.
12. If necessary, select C5119 and repeat above steps.
13. Turn the POWER switch to OFF.

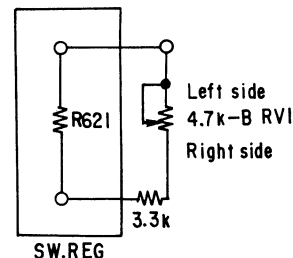


To A2 connector.



HV HOLD DOWN ADJUSTMENT (R5217, R5218)

1. Confirm that the POWER switch is in OFF position.
2. Connect the positive lead of the high tension meter to the HV Block and negative lead to the ground lug beside the heat sink.
3. Mount ceramic capacitor (470pF) to C5119 of E board.
4. Disconnect A-21, A-22 and A-23 connector of A board.
5. Remove the SW. REG and take off G board.
6. Remove R620 and R621 of G board.
7. Install the tool shown in the figure.
8. Disconnect the A-2 connector on the A board and install the tool shown in the figure. Connect a DC ammeter (3mA range) with the A board side connected to plus (+) side.
9. Feed in a dot pattern from a color-bar/pattern generator.
10. Supply 120V ac to with variable auto-transformer.
11. Turn the POWER switch to ON.
12. Adjust RV1, so that HV HOLD DOWN circuit operate.
13. Confirm that the POWER is automatically turned off just when the voltage on the high tension meter is less than 34.65kV (When the raster disappears) if this not satisfied select the R5217 and R5218.
14. Turn the POWER switch to OFF and feed in a monoscope pattern.
15. Turn RV1 to counterclockwise and connect A-21, A-22 and A-23 connector for A board.
16. Turn the POWER switch to ON and set the PICTURE and BRIGHT control at max.
17. Adjust RV1 so that HV HOLD DOWN circuit operate.
18. Confirm that there is less than 33.10kV and I_{ABL} is $1650 \pm 100\mu A$.
19. Turn the POWER switch to OFF.
20. Disconnect the high tension meter and DC ammeter.
21. Remove the tool and mount R620 and R621.



(2) When a high tension meter is not available

HV ADJUSTMENT (R5217, R5218)

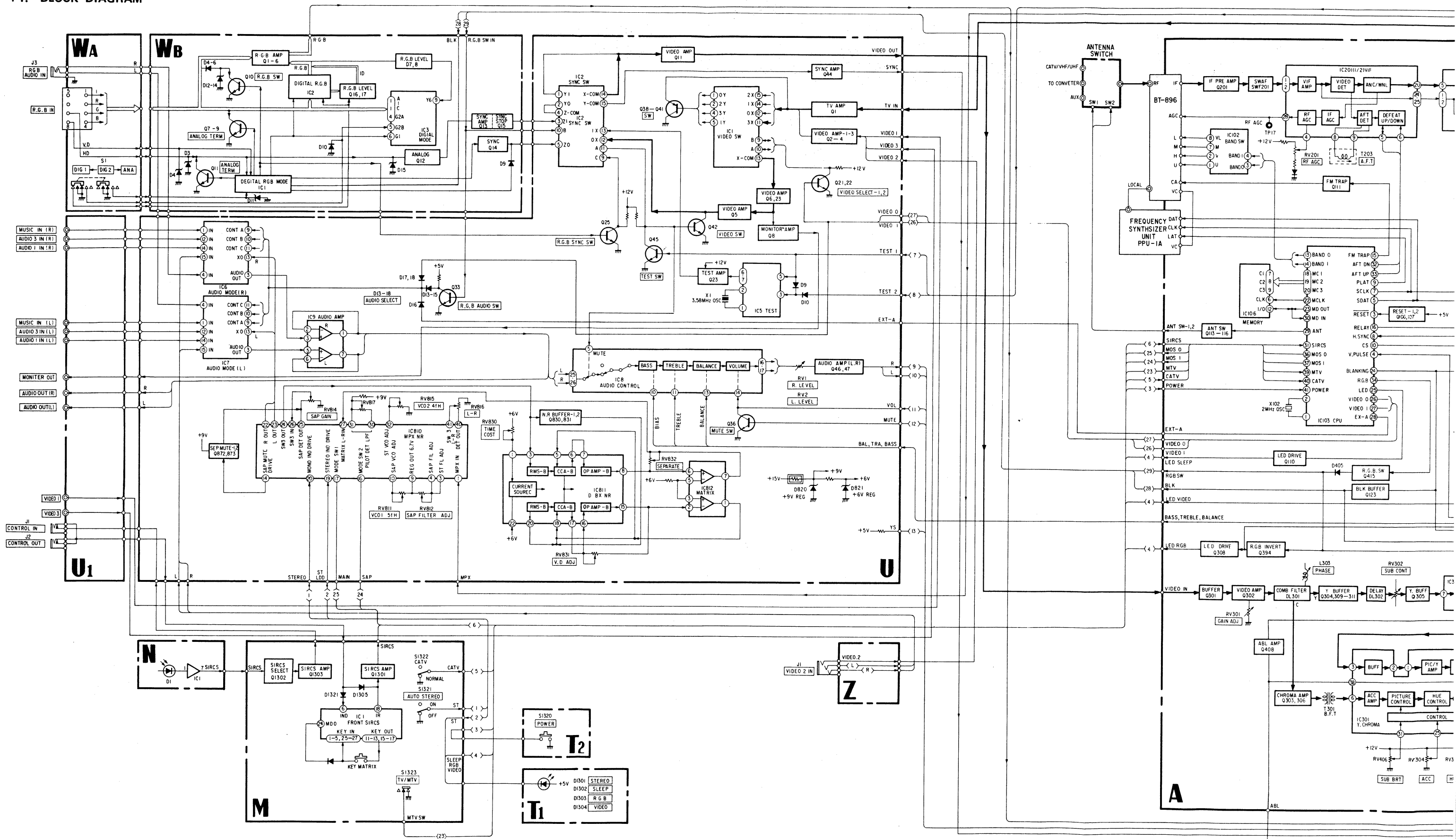
1. Check if the POWER SW in OFF.
2. Mount the 680pF/2 kV ceramic capacitor on the E board's C5119.
If the capacitor is already mounted on the C5119, mount the 680pF/2 kV ceramic capacitor in parallel with the C5119.

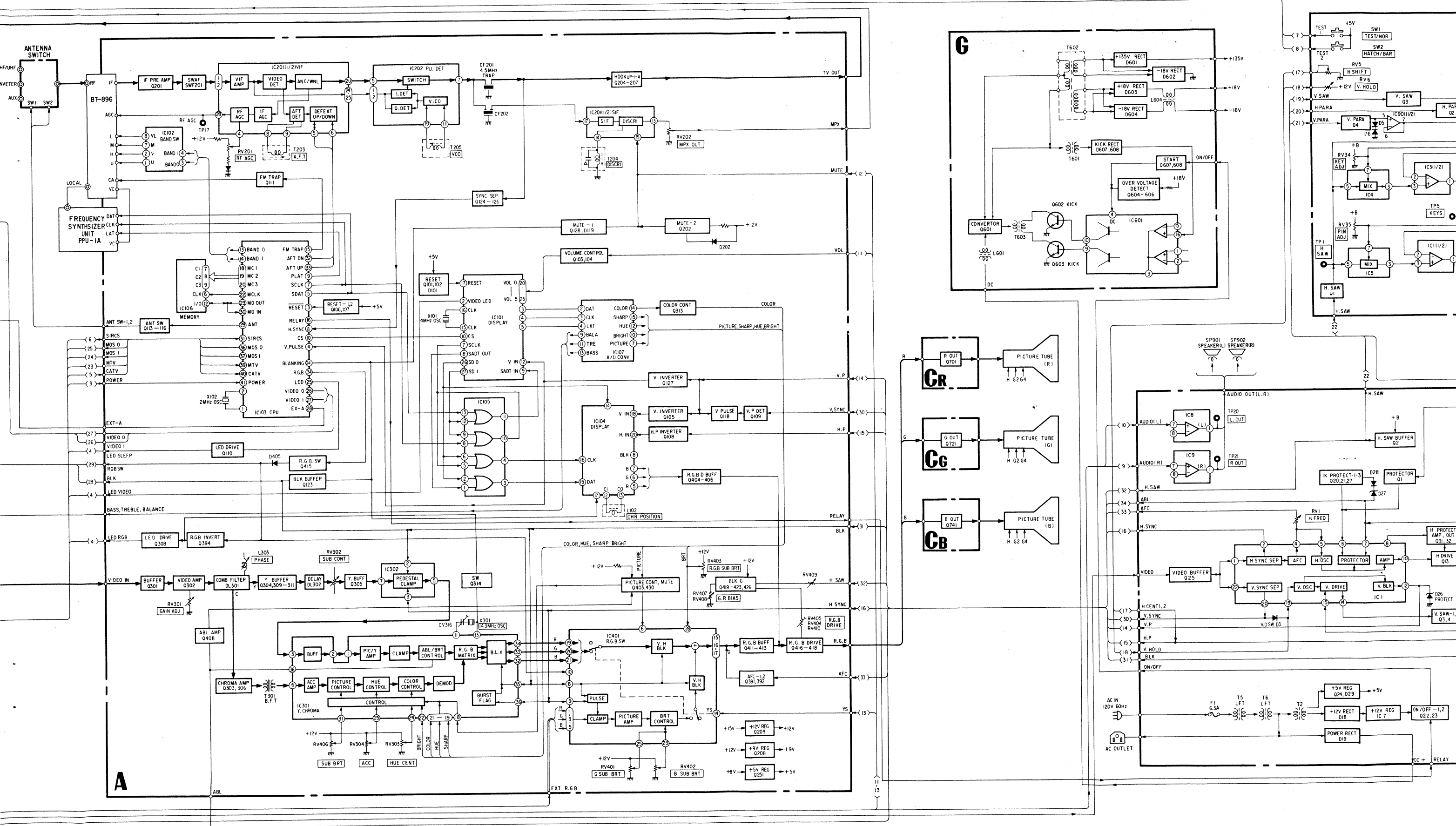
HV HOLD DOWN ADJUSTMENT (R5217, R5218, C5119)

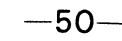
1. Open the front registration panel, and set the NOR/TEST selector to TEST. The built-in test pattern will then be received.
2. Set the user's control to RESET, and set PICTURE to 80%.
3. Check if the synchronization of the screen display is normal. If the synchronization is off, adjust by the RV5001 on the E board.
4. The resistance of the E board's R5217 and R5218 increases steadily and the HV HOLD DOWN circuit operates. Select the resistance which clears the screen display.
5. Mount two 680pF/2 kV ceramic capacitors in parallel with the E board's C5119.
If it cannot be mounted normally, mount it on the back of the board.

SECTION 4
DIAGRAMS

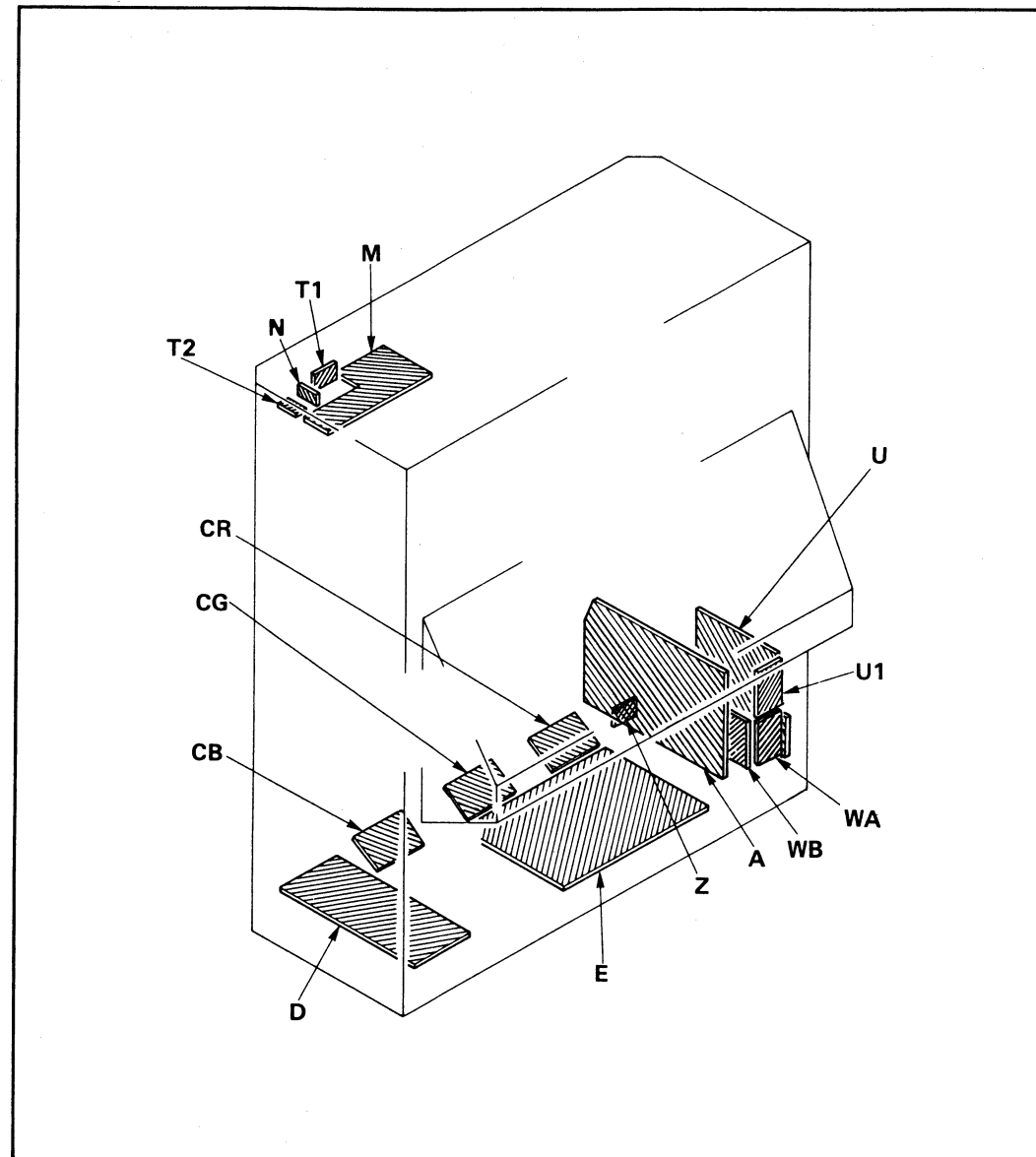
4-1. BLOCK DIAGRAM



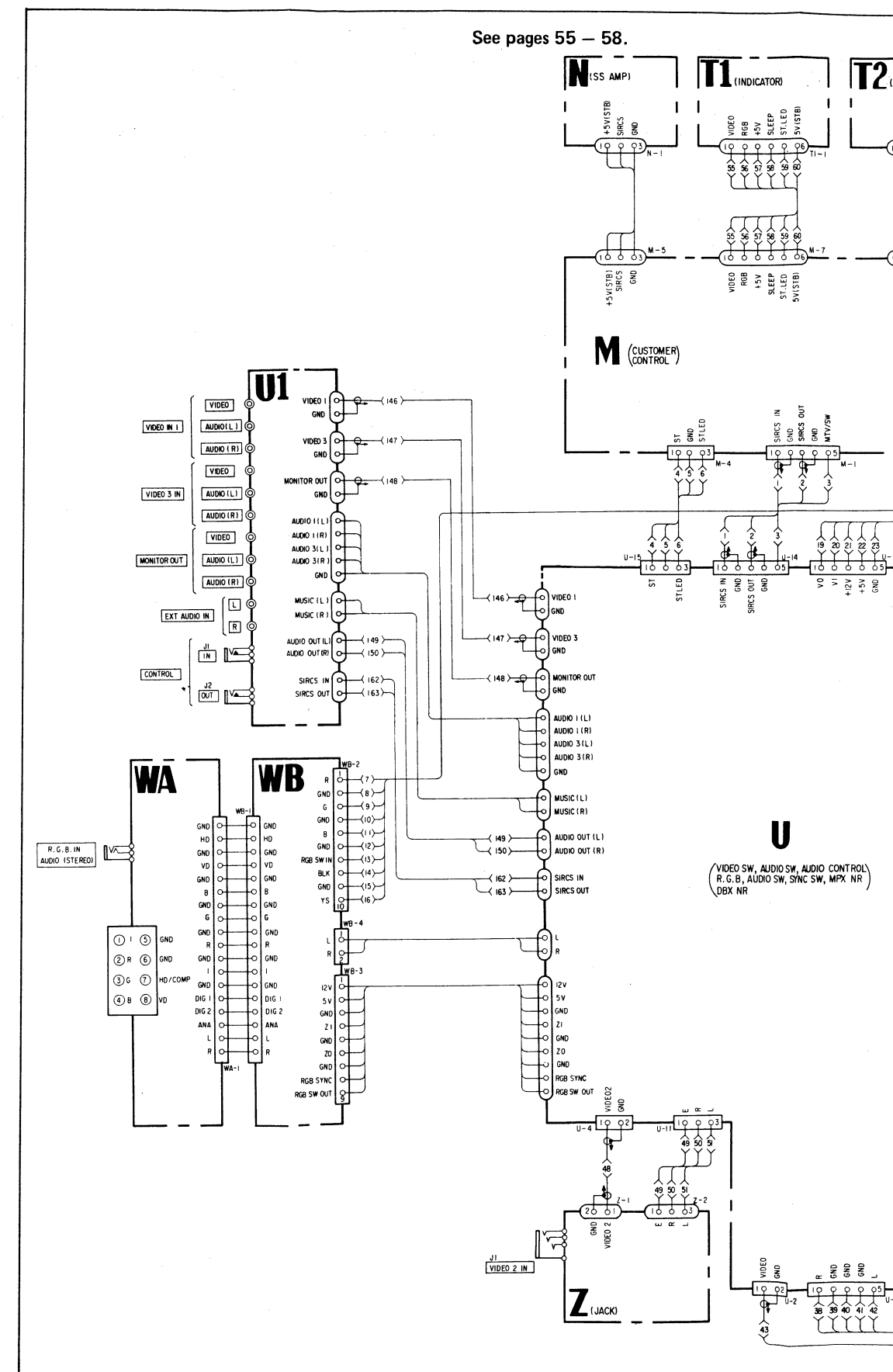




4-2. CIRCUIT BOARDS LOCATION

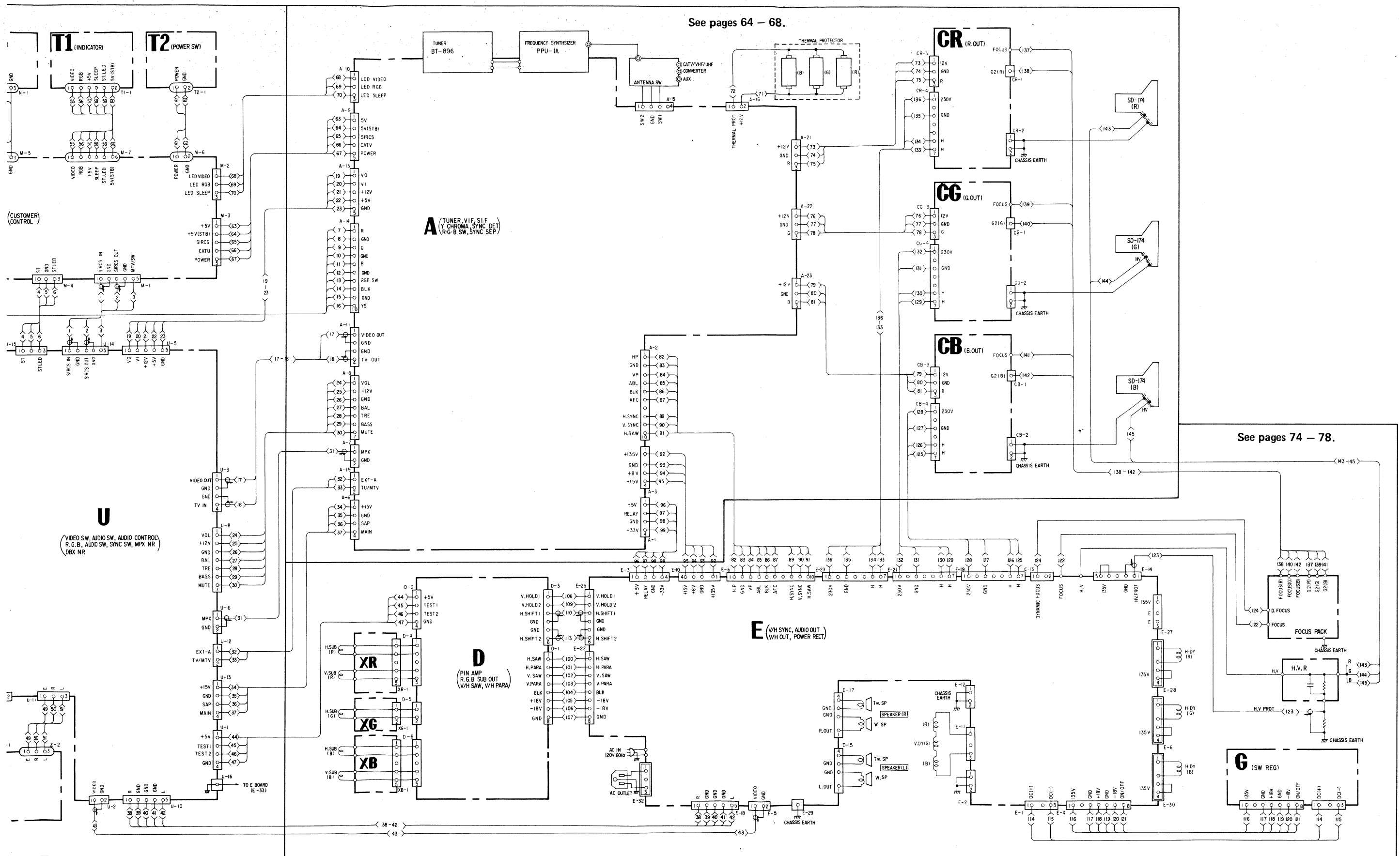


4-3. FLAME SCHEMATIC DIAGRAM



See pages 64 - 68.

See pages 74 - 78.




4.4. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS







KPR-4620
RM-730

KPR-4620
RM-730





— Ref. No. U, U1 BOARD : 8000 series —

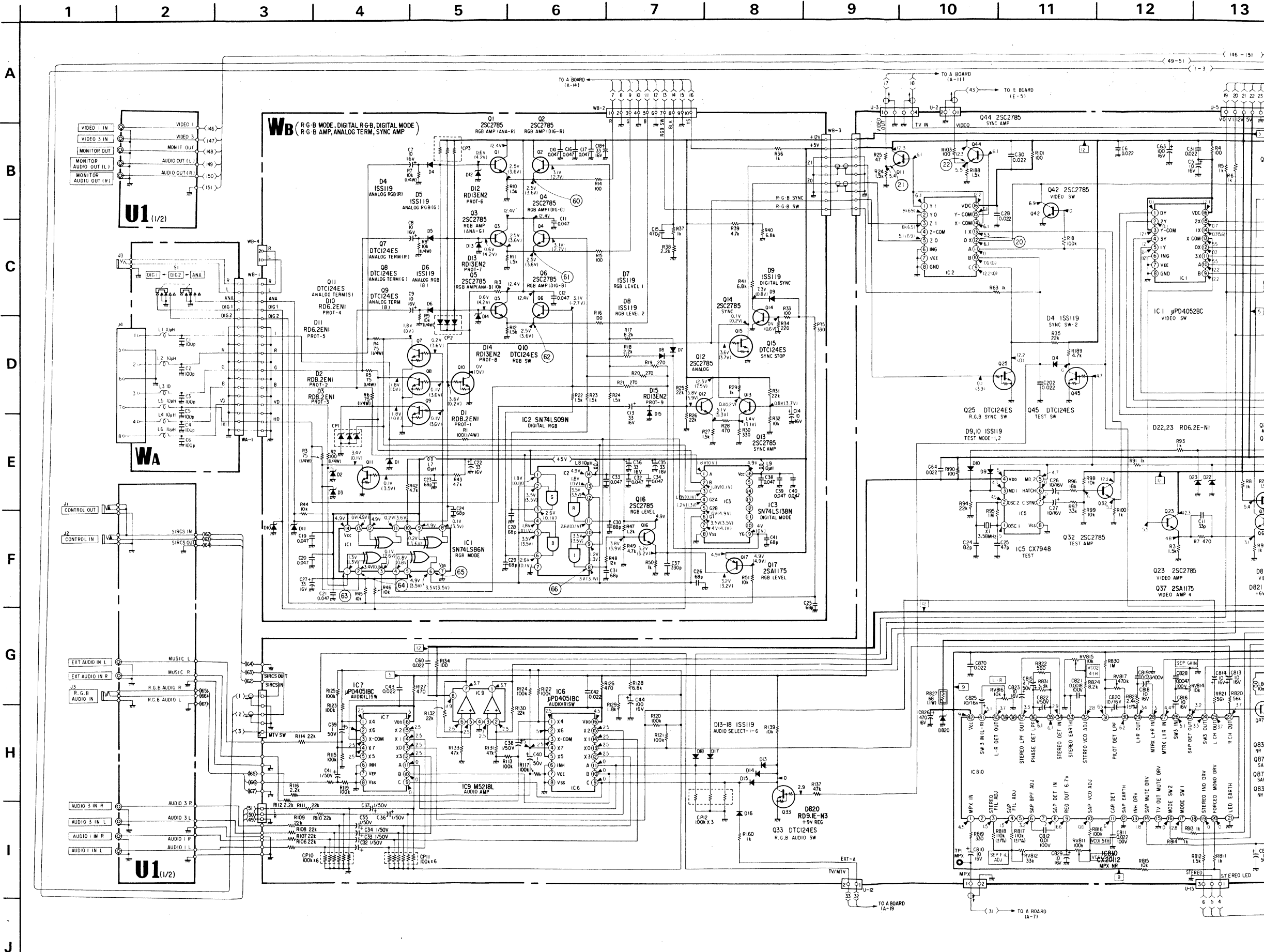
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

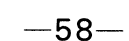
Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are $\frac{1}{4}\text{W}$, and those on all other board's are $\frac{1}{6}\text{W}$. $\text{k}\Omega$: 1000Ω , $\text{M}\Omega$: $1000\text{k}\Omega$
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.
(Refer to HV HOLD DOWN and HV adjustments on page 43 — 45).
- When replacing the part in below table, be suer to perform the related adjustment.

| Part replaced | Adjustment |
|---|---|
| E board complete HV block IC5001, Q5001, D5002, R5216, R5217, R5218, R5219, R5220, R5221, in E board R5297, R5020, R5021, R5022, R5024, R5027 | HV HOLD DOWN ADJUSTMENT (R5217, R5218) |
| E board complete Deflection yoke Switching regulator F. B. T L5004, L5005, L5010, C5037, C5038, C5039, C5058, C5059, C5060, in E board C5064, C5119, R5066, R5096 | HV ADJUSTMENT C5119 |

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
no mark : Normal
() : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
- Circled numbers are waveform references.





DIGITAL/ANALOG R. G. B
SYNC SW, AUDIO CONTROL
MPX. DBX NR, AUDIO SW

U

U

1 2 3 4 5 6 7 8 9 10 11 12

A

B

C

D

E

F

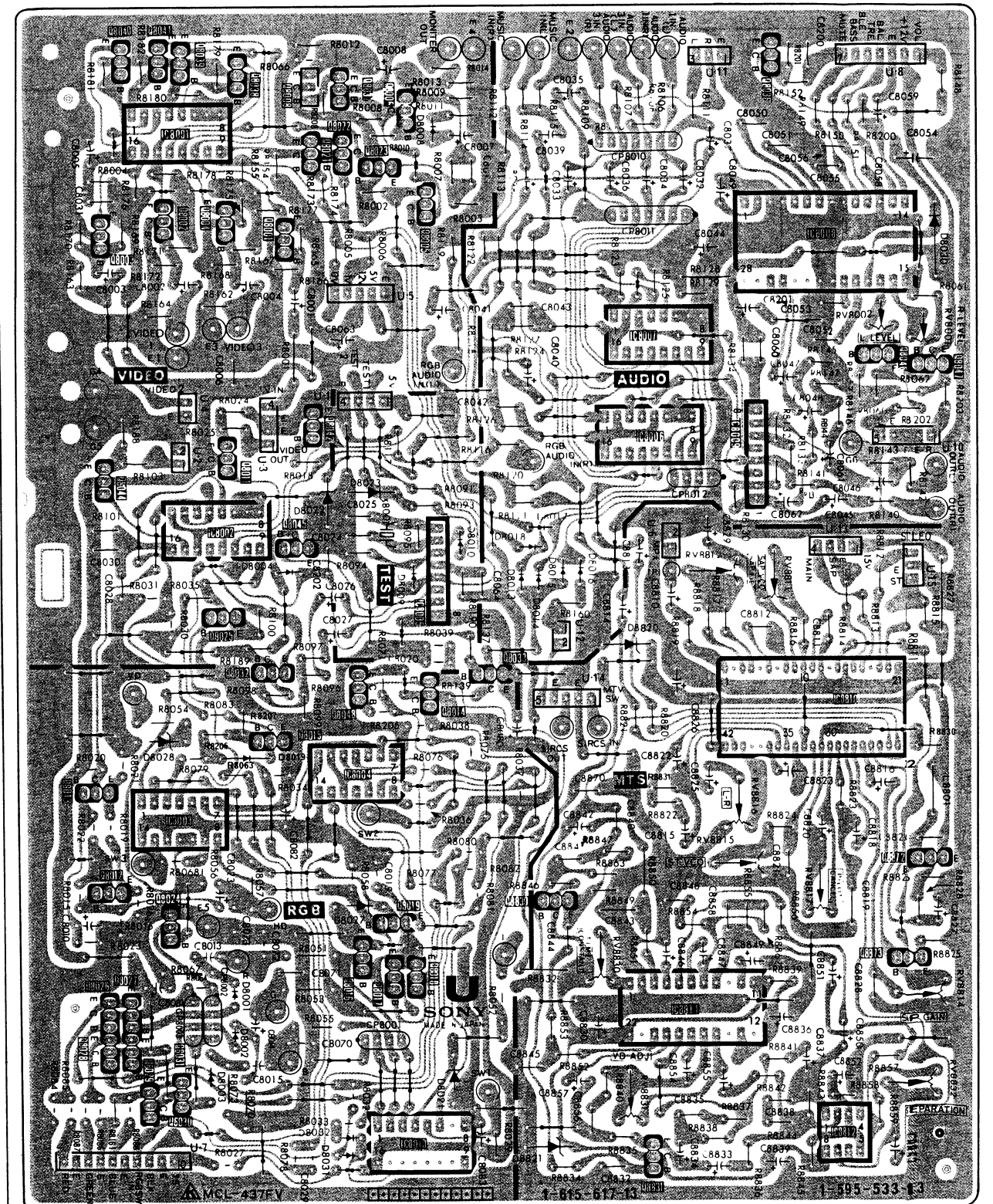
G

H

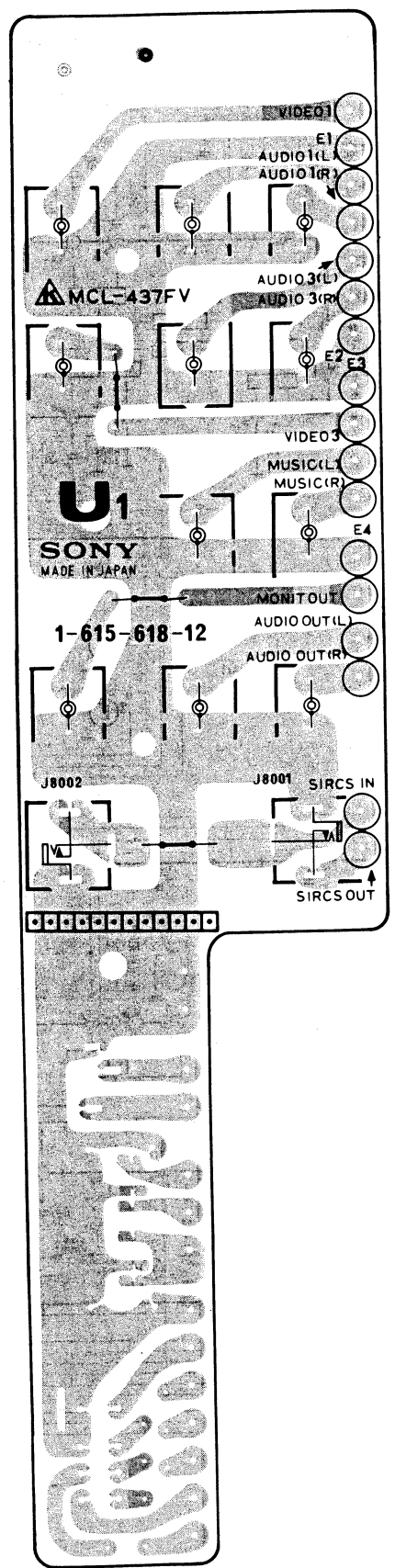
I

- U Board -

| Q, IC | D | ADJ | TP |
|---|-------------------------------------|------------------|----|
| 8036 8040,8041 8039,8038 8008,8037 8006 | 8008 | | |
| IC8001 8021,8022 8023 | | | |
| 8005 8002,8004 8003,8001 IC8008 | 8030 | | |
| IC8007 8046 8047 | | RV8002 RV8001 | |
| 8042 IC8006 IC8009 8011 8044 | | | |
| 8022,8023 8017 | | | |
| IC8002 8045 | 8010,8018 | | |
| IC8005 | 8004,8009 8005,8016 8013,8014 | RV8812 RV8811 | I |
| 8025 | | | |
| 8032,8033 | 8820 | | |
| IC8810 | | | |
| | 8019 8063 | | |
| | | RV8816 | |
| 8872 | | RV8815 | |
| 8830 | | RV8817 | |
| 8073 | | RV8830 | |
| IC8813 | | RV8814 | |
| | | RV8832 RV8831 | |
| IC8812 8831 | 8821 | | |
| Q, IC | D | ADJ | TP |

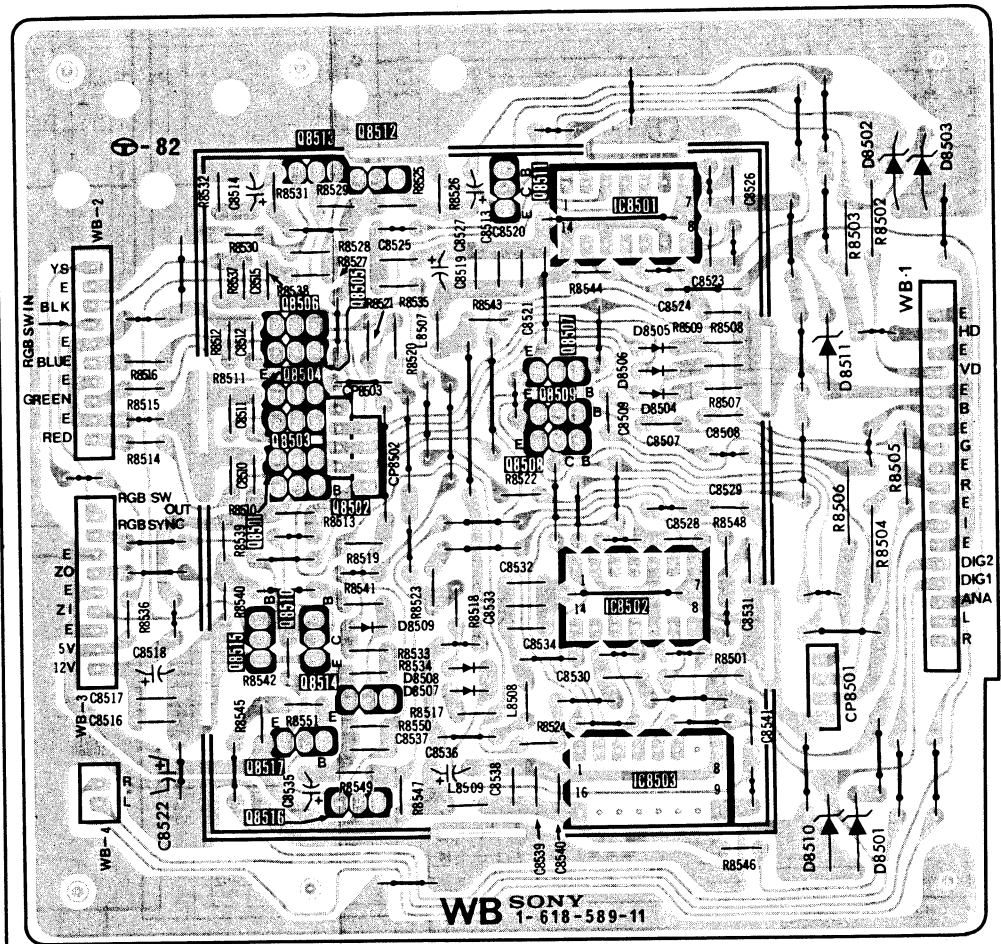


— U1 Board —

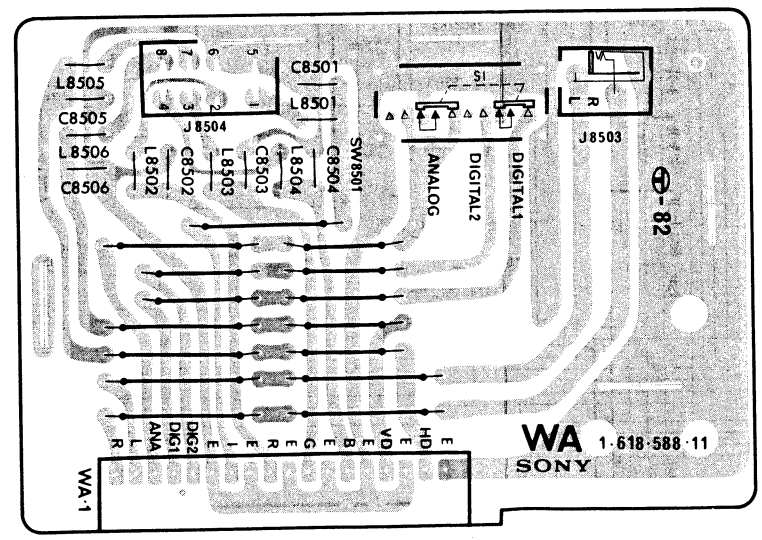


— WB Board —

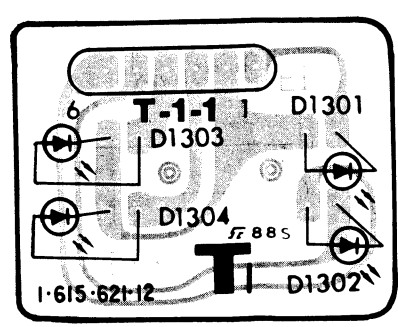
| Q, IC | D |
|--|------------------------------|
| 8513 8512 8511 IC8501 | 8502 8503 |
| 8506 8505 8507 8504 8509 8503 8508 8501 8502 | 8505 8511 8506 8504 |
| IC8502 | 8509 |
| 8515 8510 8514 | 8508 8507 |
| 8517 | |
| IC8503 8516 | 8510 8501 |
| Q, IC | D |



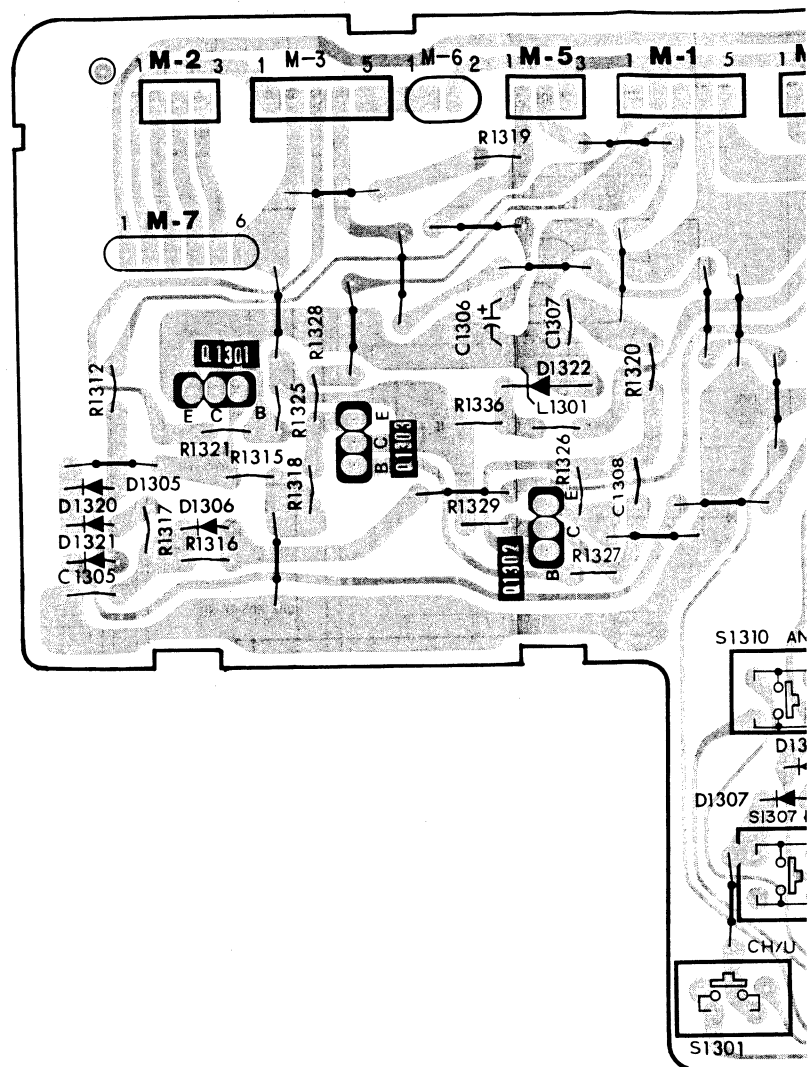
— WA Board —



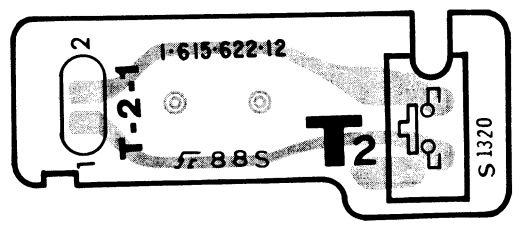
— T1 Board —



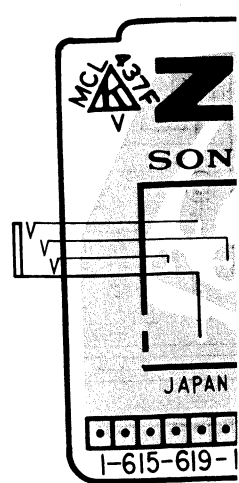
— M Board —



— T2 Board —



— Z Board —



R-G-B MODE, DIGITAL R-G-B, DIGITAL MODE
R-G-B AMP, ANALOG TERM, SYNC AMP

WB

WA

WB

M

[CUSTOMER
CONTROL]

T1

[INDICATOR]

T2

[POWER SWITCH]

Z

[JACK]

N

[INF AMP]

16

17

18

19

20

21

22

23

24

25

26

27

28

29

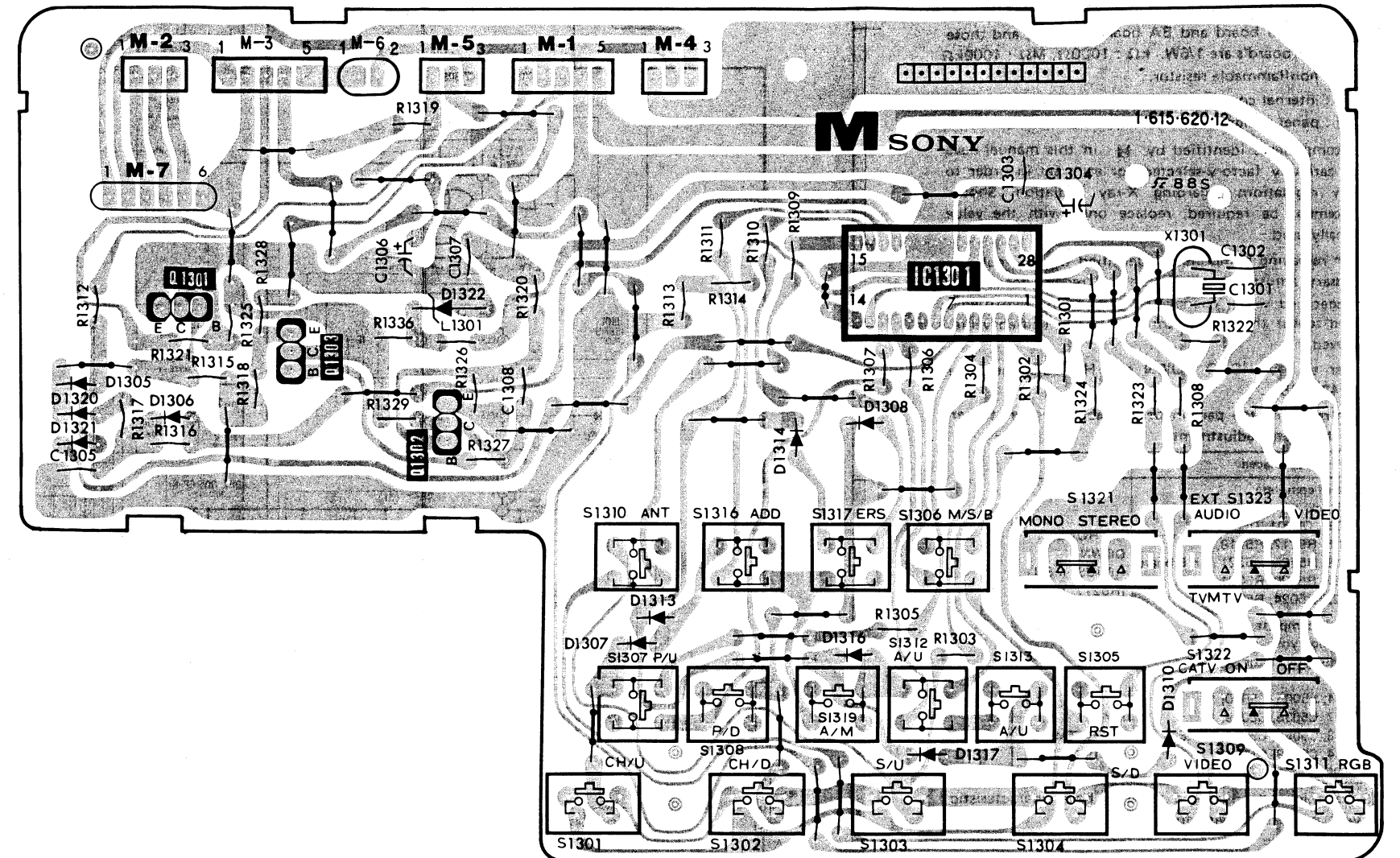
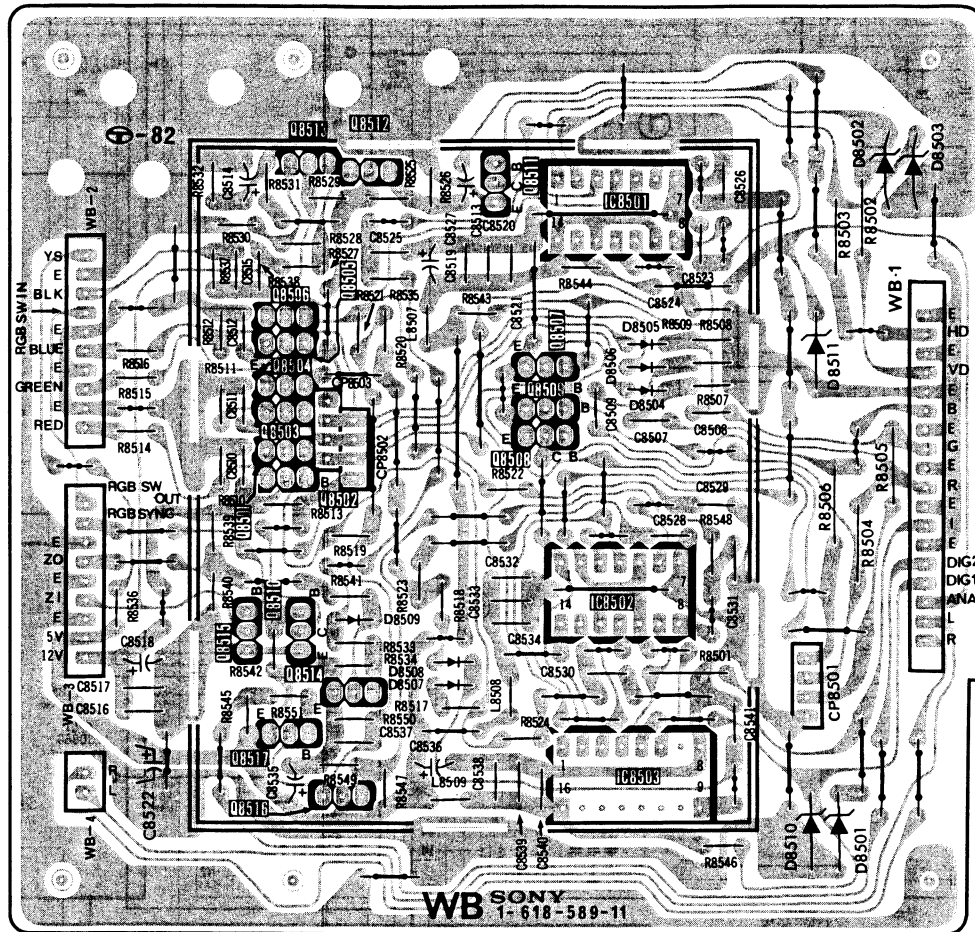
30

31

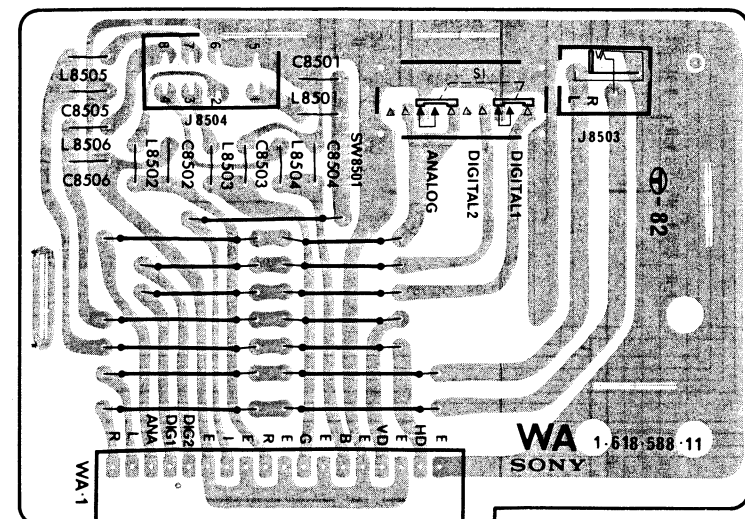
— WB Board —

— M Board —

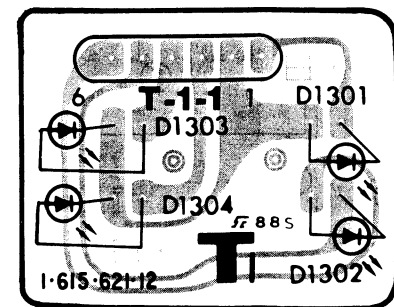
| Q, IC | D |
|--------------------------------------|------------------------------|
| 8513 8511 IC8501 | 8502 8503 |
| 8506 8505 8507 | 8505 8511 8506 8504 |
| 8504 8503 8508 8501 8502 | |
| IC8502 | |
| 8515 8510 8514 8517 | 8509 8508 8507 |
| IC8503 8516 | |
| Q, IC | D |
| | 8510 8501 |



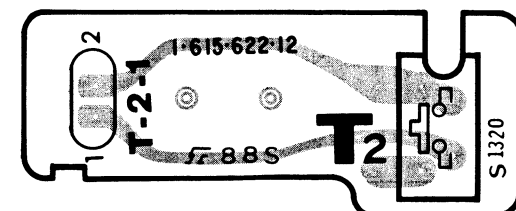
— WA Board —



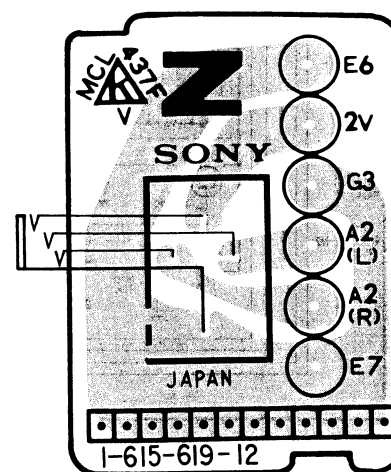
— T1 Board —



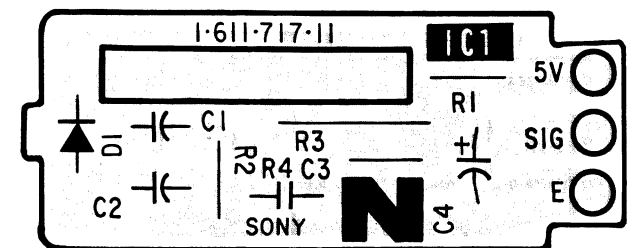
— T2 Board —




— Z Board —







— N Board —





Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are $\frac{1}{4}W$, and those on all other board's are 1/6W. k Ω : 1000 Ω , M Ω : 1000k Ω
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.




• The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

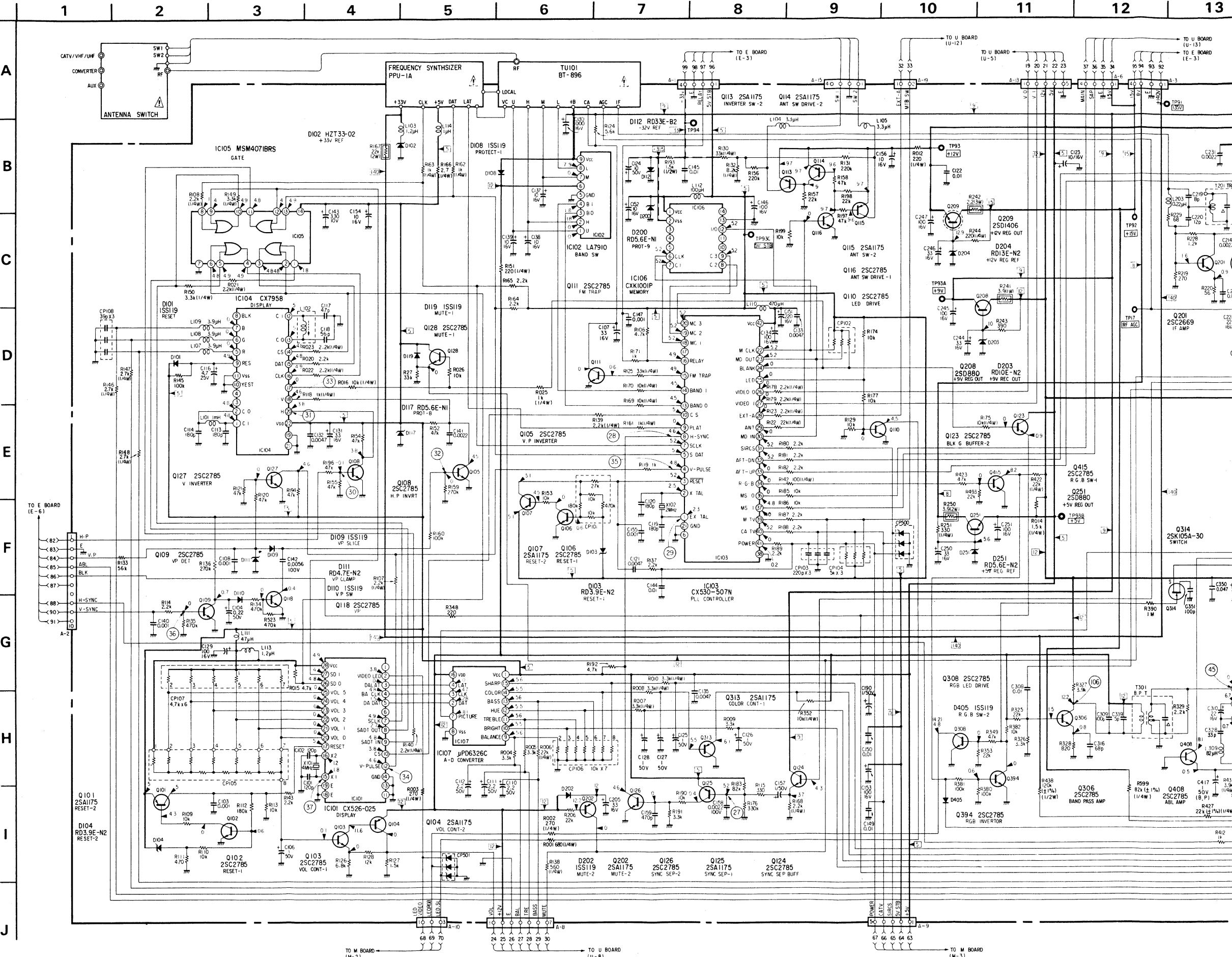
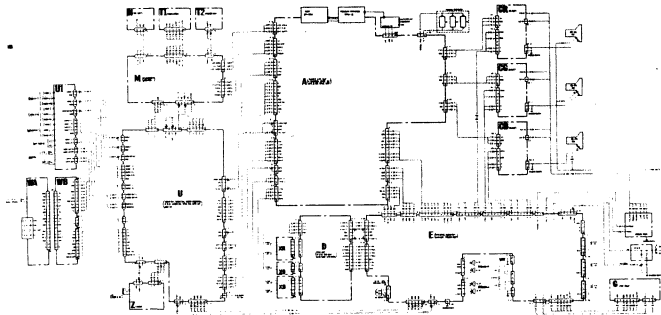
• When replacing components identified by  , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.

(Refer to HV HOLD DOWN and HV adjustments on page 43 - 45).

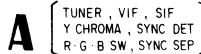
• When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced | Adjustment |
|--|---|
| E board complete HV block IC5001, Q5001, D5002, R5216, R5217, R5218, R5219, R5220, R5221, R5297, R5020, R5021, R5022, R5024, R5027 | HV HOLD DOWN ADJUSTMENT (R5217, R5218) |
| E board complete Deflection yoke Switching regulator F. B. T L5004, L5005, L5010, C5037, C5038, C5039, C5058, C5059, C5060, C5064, C5119, R5066, R5096 | HV ADJUSTMENT C5119 |

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10M Ω digital multimeter.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
no mark : Normal
() : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
- Circled numbers are waveform references.







A

TUNER, VIF, SIF
Y CHROMA, SYNC DET
R.G.B SW, SYNC SEP

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

B

C

D

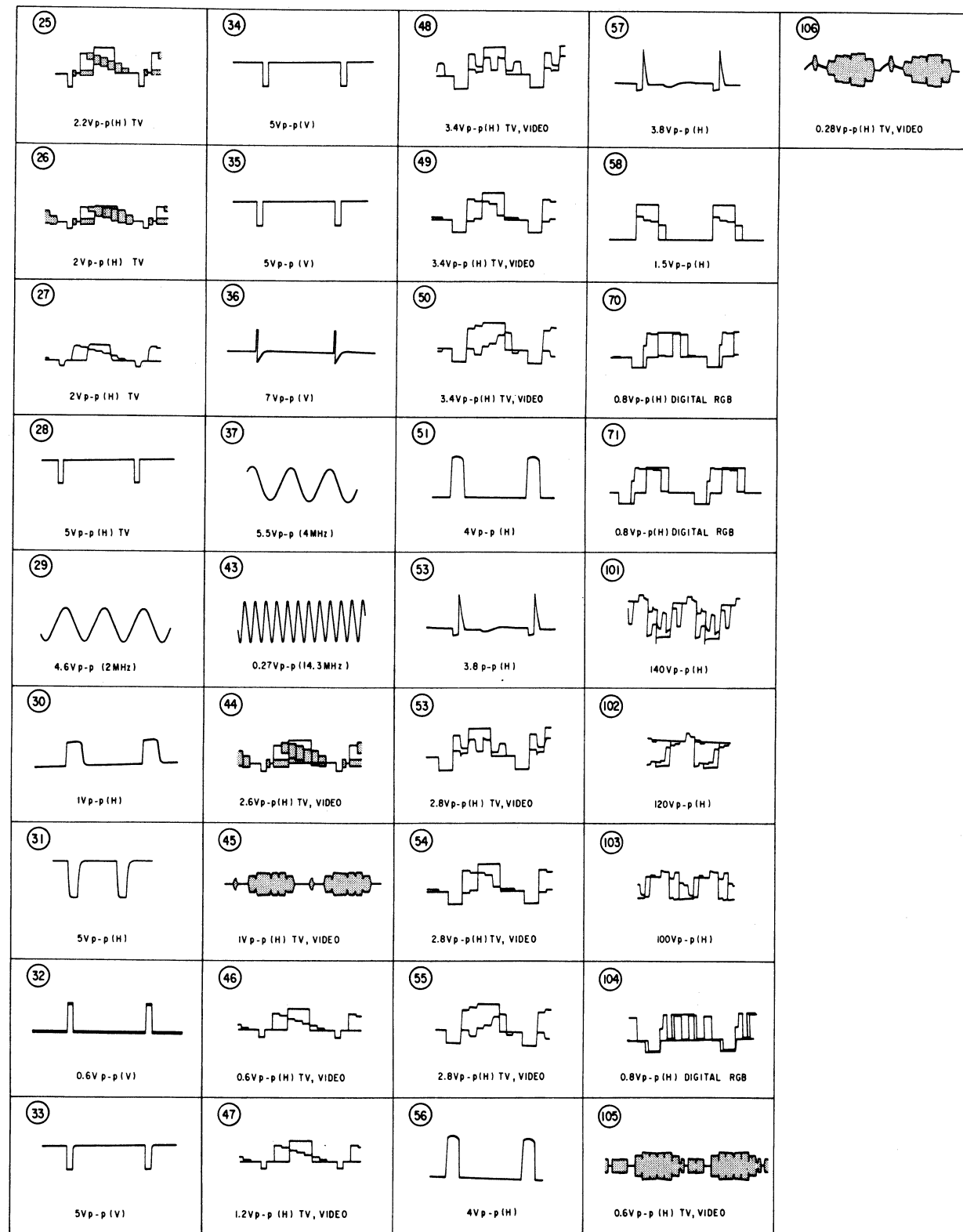
E

F

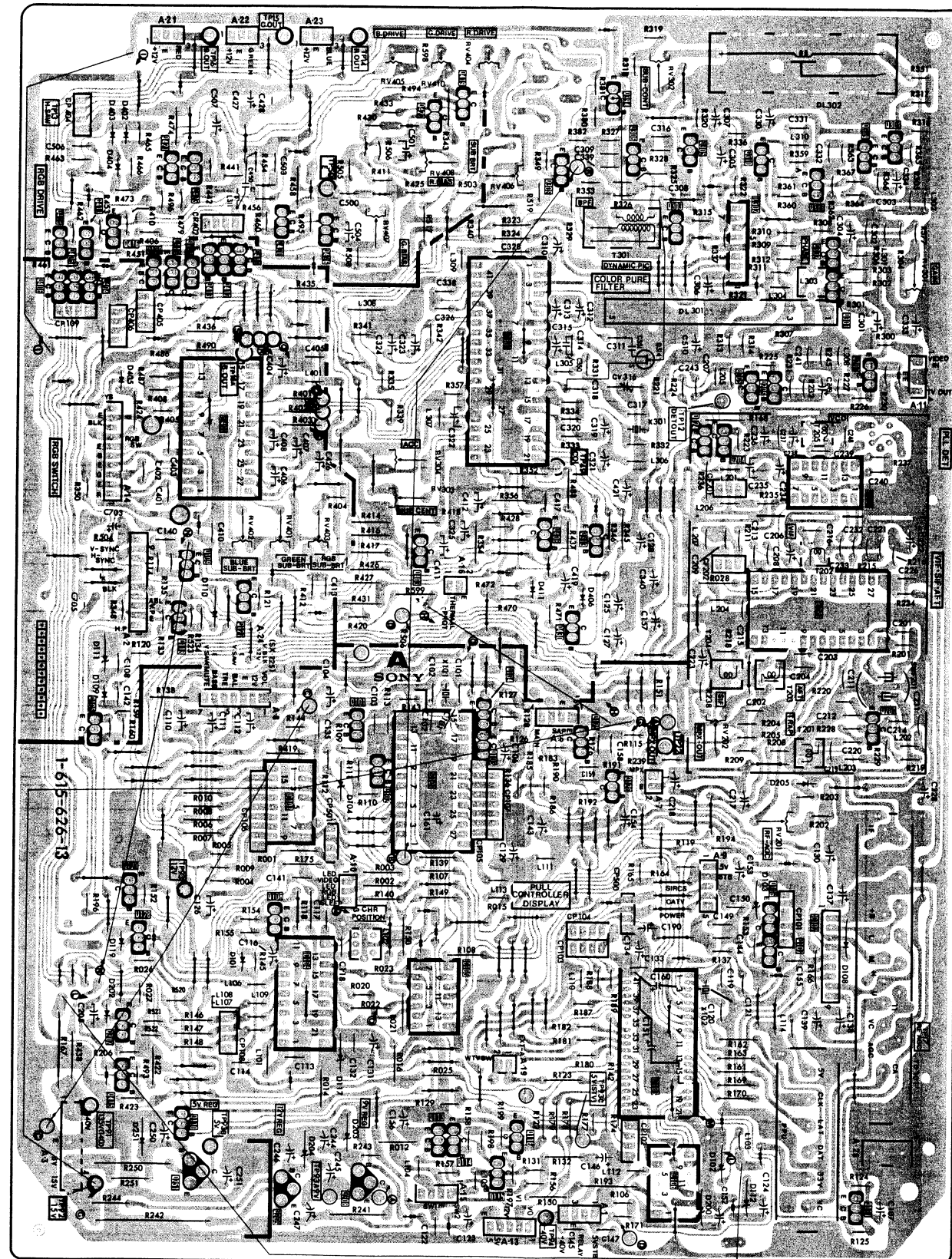
G

H

I



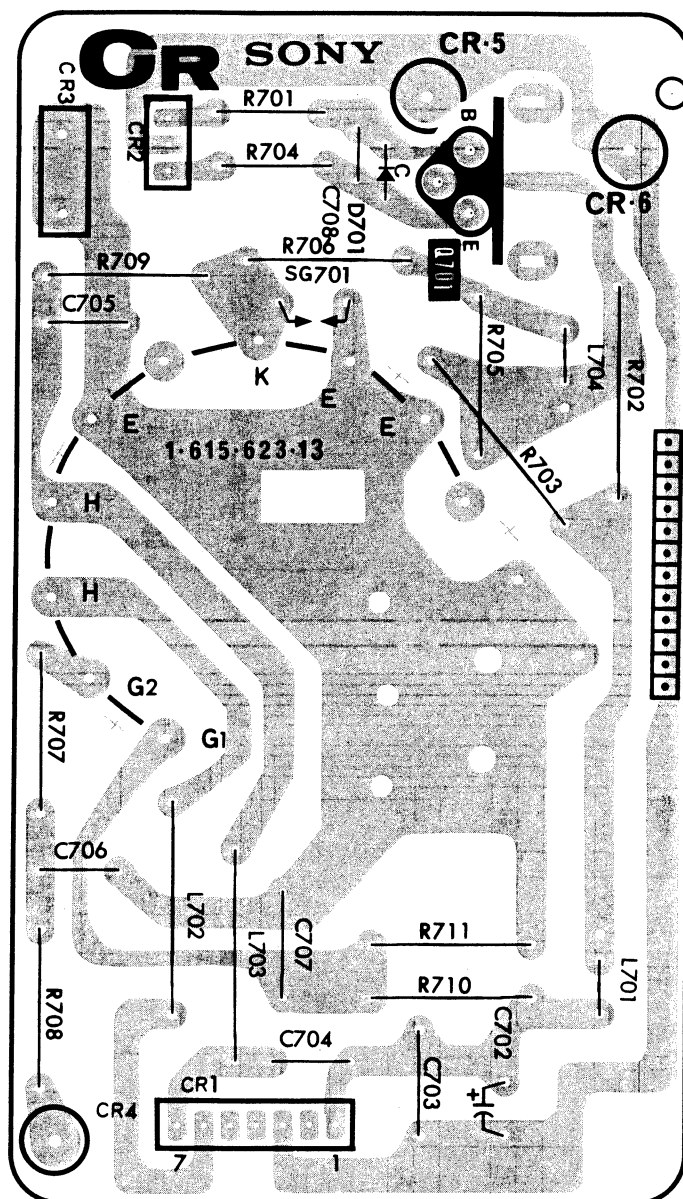
- A Board -



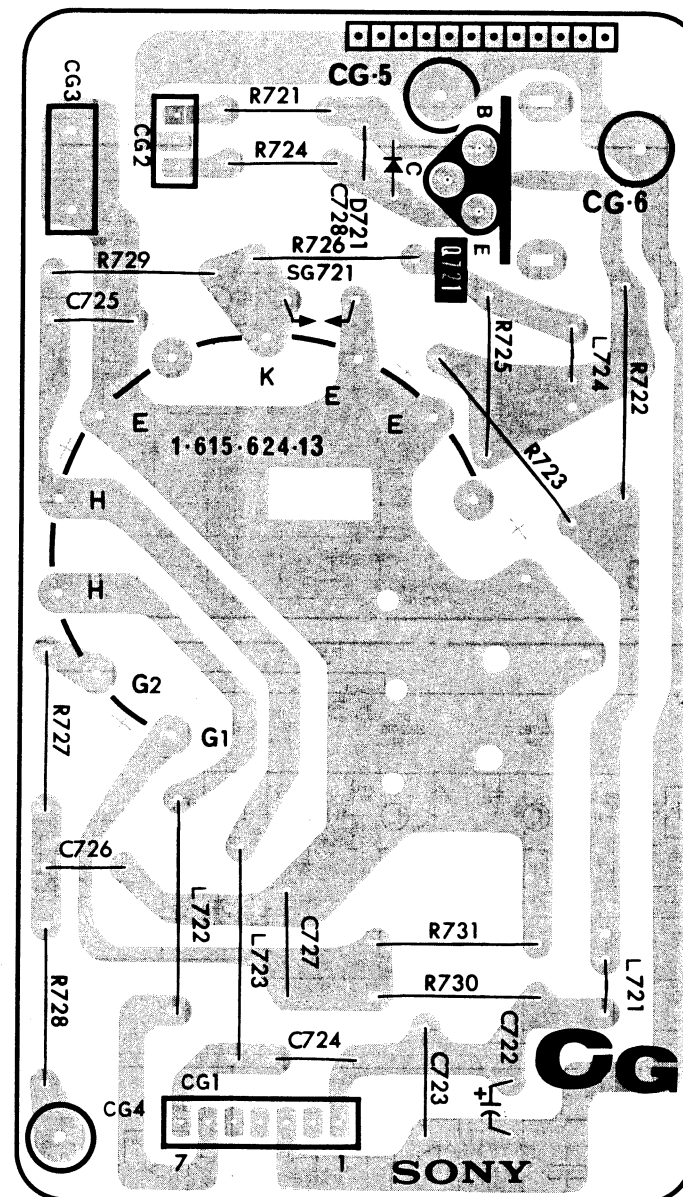
| IC, Q | D | AD |
|---|---------|----------------|
| 410 394 422 | | RV41 RV42 RV43 |
| 305 304 306 303 309 | 403 402 | |
| 423 308 311 | 404 | RV4C |
| 420 426 303 416 IC302 417 412 418 411 302 413 | | RV4C |
| 120 119 012 304 406, 405, 404 | | RV3C |
| IC301 314 | | |
| 207 205 206 | 405 | |
| IC401 124 204 | | RV30 |
| IC202 | | RV30 |
| 408 403 109 | | RV402 RV403 |
| 127 118 430 | 411 406 | |
| | 110 | |
| | 111 | |
| 104 101 105 125 103 | 109 | RV202 |
| 102 101 126 | 104 205 | |
| IC101 IC107 | | RV201 |
| 123 108 106 IC102 128 107 101 | 103 108 | |
| IC104 IC105 202 IC103 | 202 117 | |
| 415 | | |
| 110 113 114 116 25 204 | 203 102 | |
| 251 IC106 208 209 111 | 112 | |
| IC, Q | D | ADJ |

| Z | D | ADJ | T |
|-----|------------|-------------------------|---------------|
| | | | TF5 |
| | | RV410 RV404 RV302 | TF4 |
| 394 | | | TF3 |
| 304 | 403 | | |
| 309 | | | TF0 |
| 311 | 404 | RV406 | |
| 3 | | | |
| 302 | | RV407 | |
| 302 | | | |
| 012 | | | |
| 301 | | RV301 | |
| 404 | | | |
| 314 | | | |
| 107 | 405 | | TP1A |
| 206 | | | TP2 |
| 204 | | | TP9 |
| 02 | | RV304 | |
| | | RV303 | |
| 313 | | RV402 RV401 403 | |
| | 411 406 | | |
| 01 | 110 | | |
| 30 | | | |
| | 111 | | |
| | 109 | | |
| 4 | | RV202 | |
| 01 | | | TP22 |
| 5 | | | |
| 13 | | | |
| 12 | | | |
| 26 | 104 | 205 | |
| 7 | | RV201 | |
| | | | TP33 |
| | | | |
| | | | |
| 6 | | 103 | |
| 102 | | | |
| 17 | 119 | 108 | |
| | 101 | | |
| 4 | | | |
| 5 | | | |
| | 202 | | TP17 |
| 5 | | 117 | |
| | | | TP93C |
| | | | |
| | | | |
| 116 | 251 | 203 | TP93B TP91 |
| | | 204 | |
| 115 | | 102 | |
| 208 | | | TP93A |
| 11 | | 112 | TP92 |
| | | | TP94 |
| I | D | ADJ | TP |

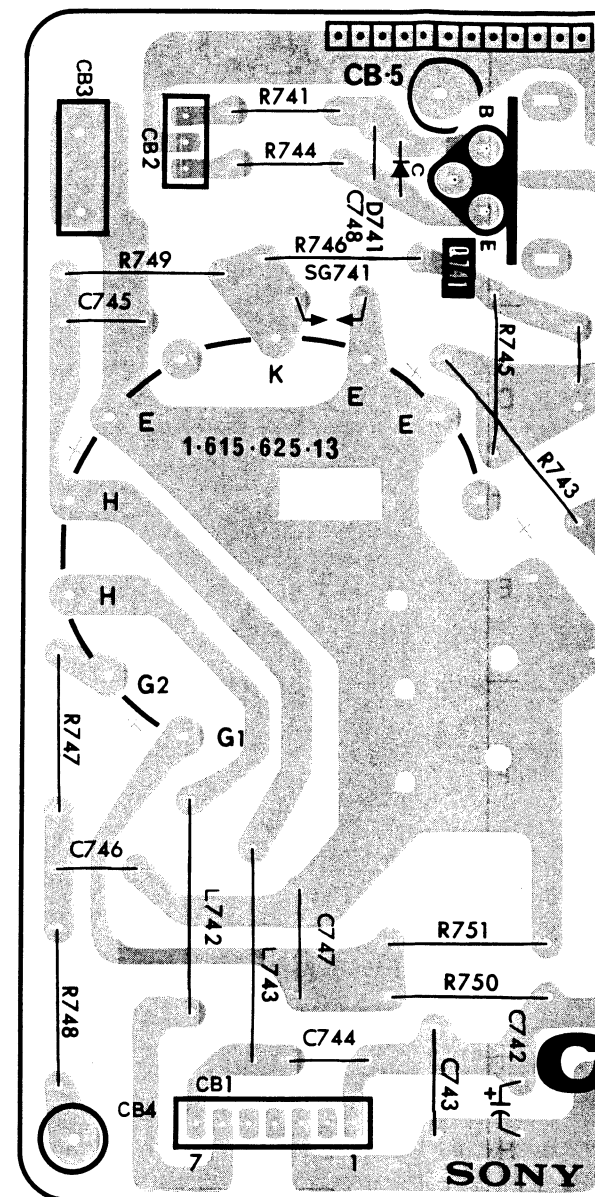
— CR Board —



– CG Board –



— CB Board —



A

[R. OUT]

CR

CR

CG

[G. OUT]

CB

[B. OUT] ☐

20

21

22

23

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25

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29

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31

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33

34

A

B

C

D

E

F

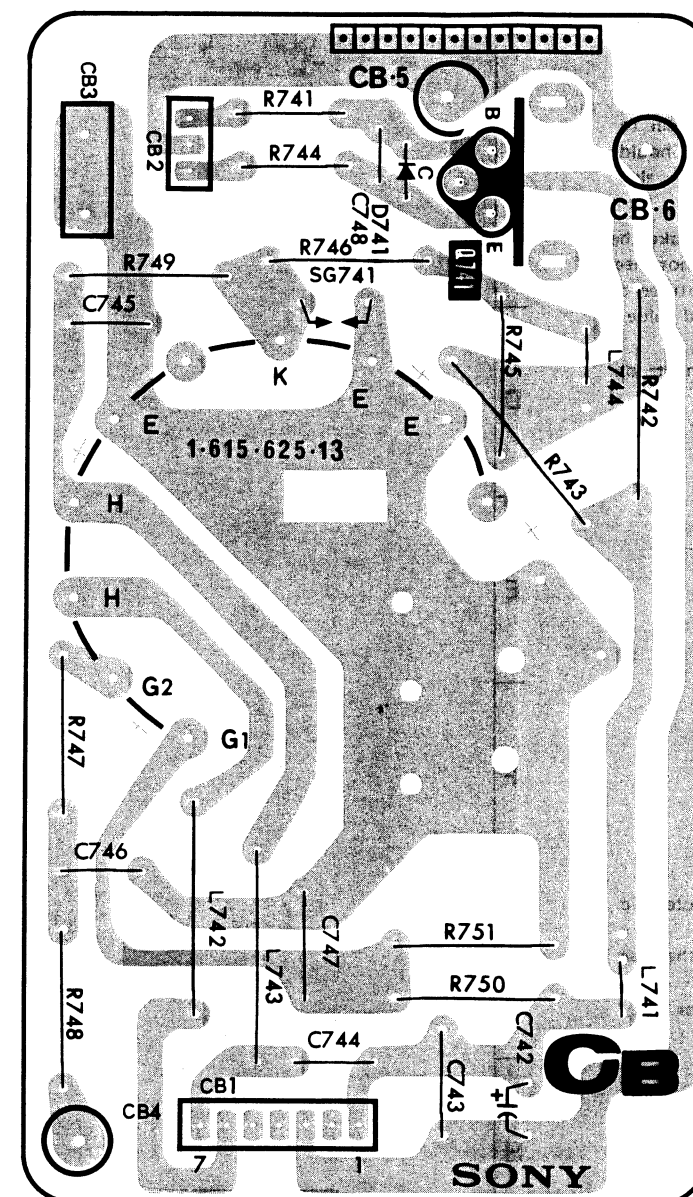
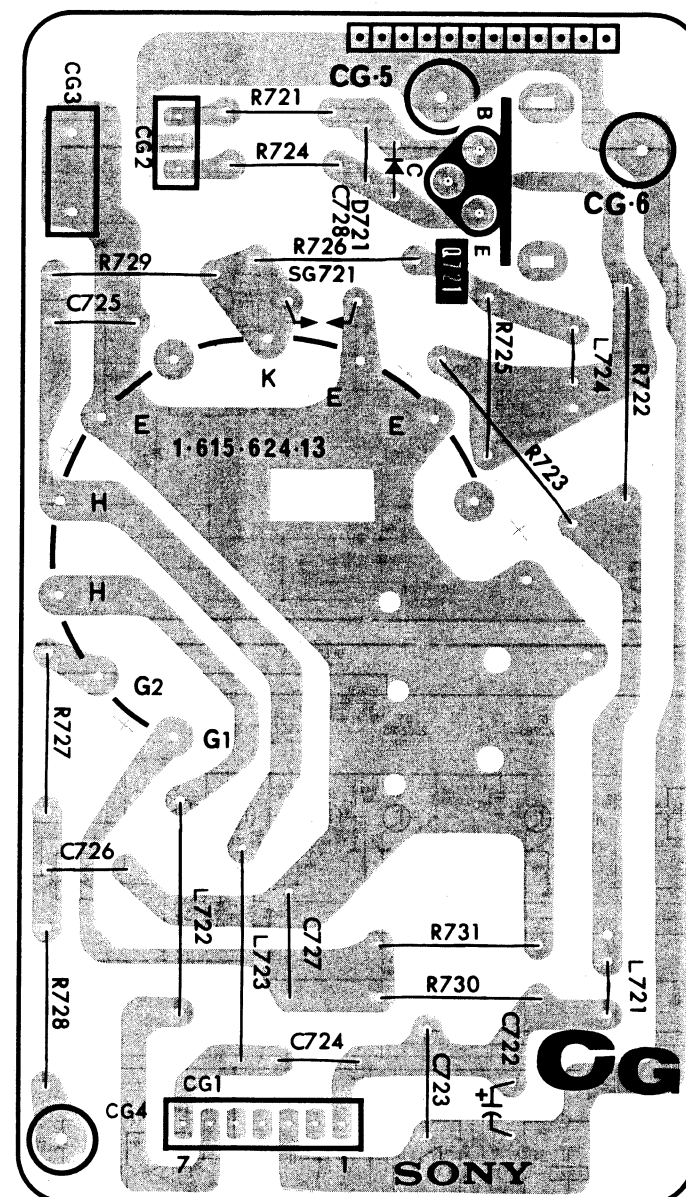
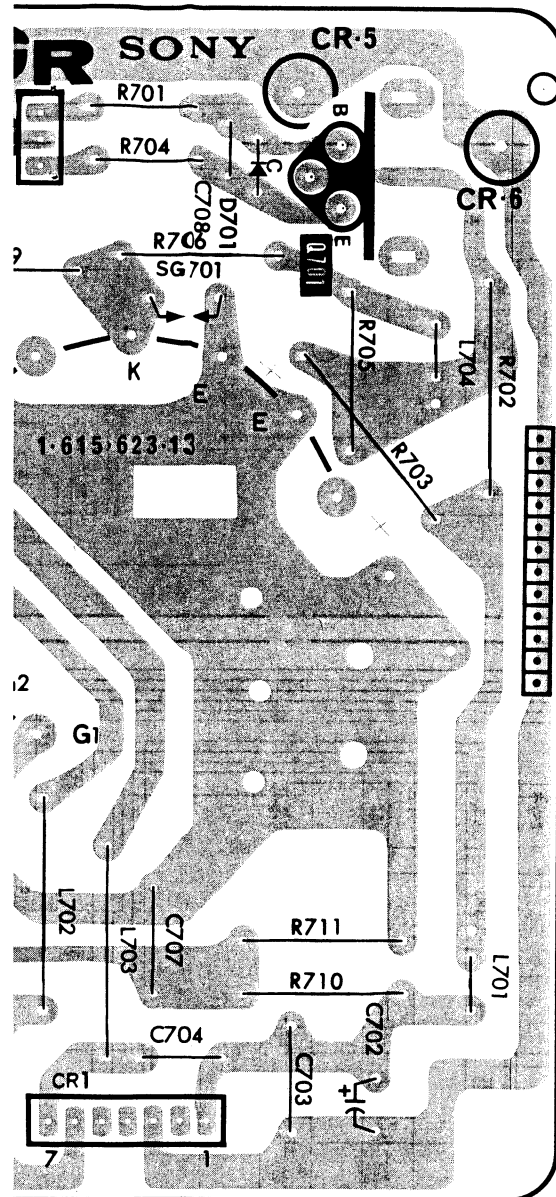
G


H

1







— CG Board —

— CB Board —







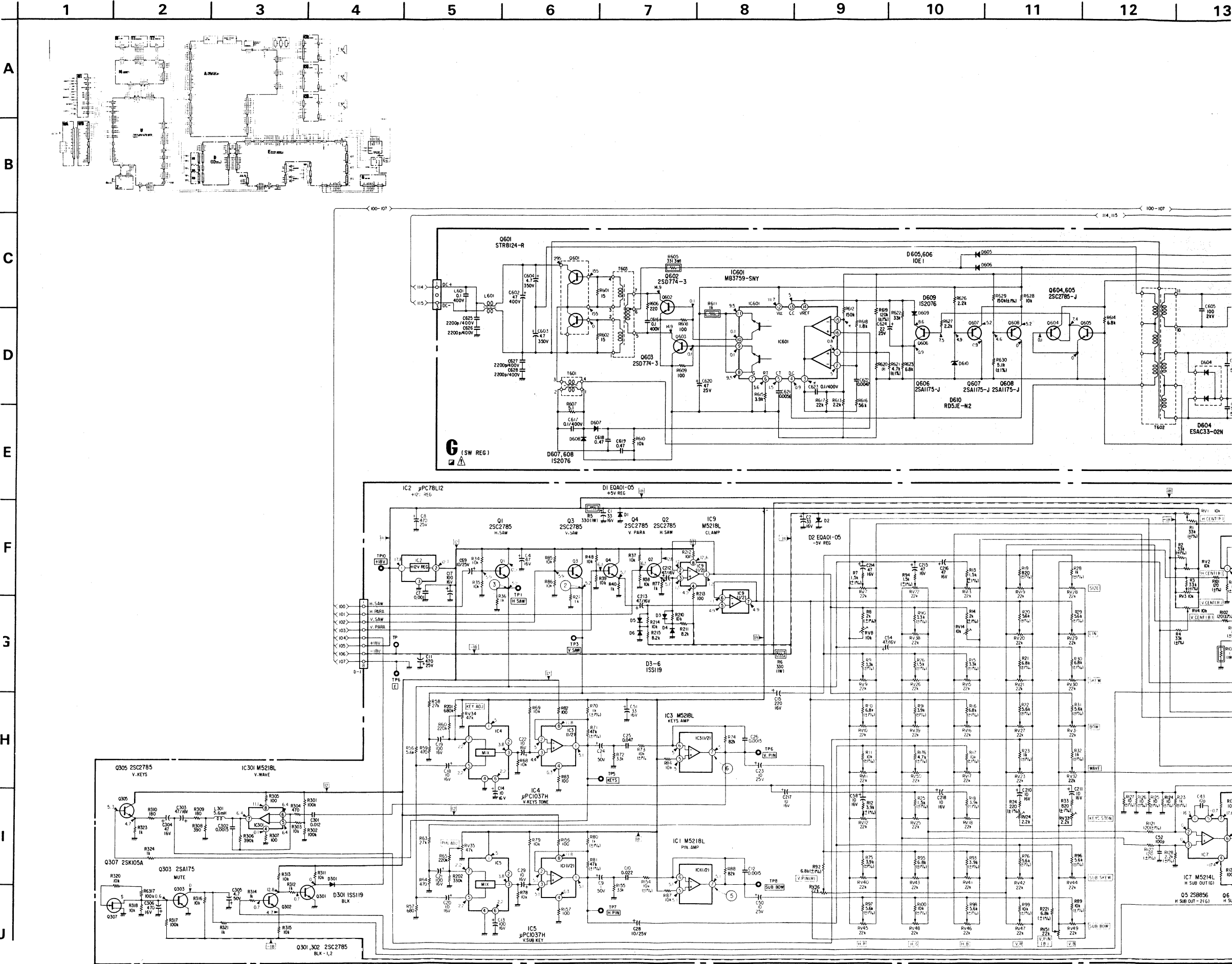
Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

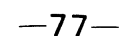
Note:

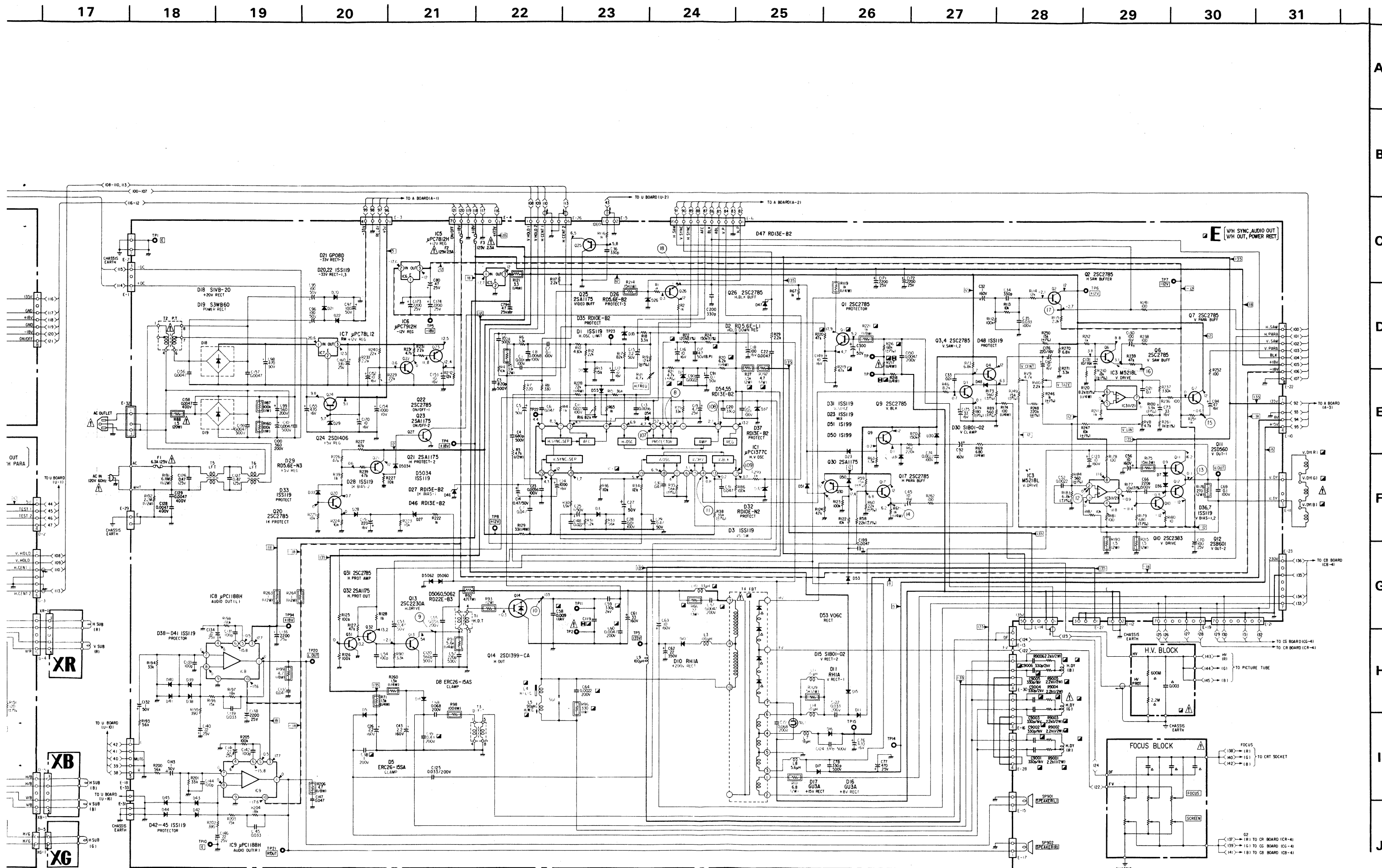
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics.
- Resistors on G board and BA board are $\frac{1}{4}\text{W}$, and those on all other board's are $\frac{1}{6}\text{W}$. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by  and repeat the adjustment until the specified value is achieved.
(Refer to HV HOLD DOWN and HV adjustments on page 43 - 45).
- When replacing the part in below table, be suer to perform the related adjustment.

| Part replaced | Adjustment |
|--|---|
| E board complete HV block IC5001, Q5001, D5002, R5216, R5217, R5218, R5219, R5220, R5221, R5297, R5020, R5021, R5022, R5024, R5027 | HV HOLD DOWN ADJUSTMENT (R5217, R5218) |
| E board complete Deflection yoke Switching regulator F. B. T L5004, L5005, L5010, C5037, C5038, C5039, C5058, C5059, C5060, C5064, C5119, R5066, R5096 | HV ADJUSTMENT C5119 |

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10M Ω digital multimeter.
-  : adjustment for repair.
- Readings are taken with a color-bar signal input.
no mark : Normal
() : Color bar video signal received
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
- Circled numbers are waveform references.







V/H SYNC AUDIO OUT
V/H OUT POWER RECT

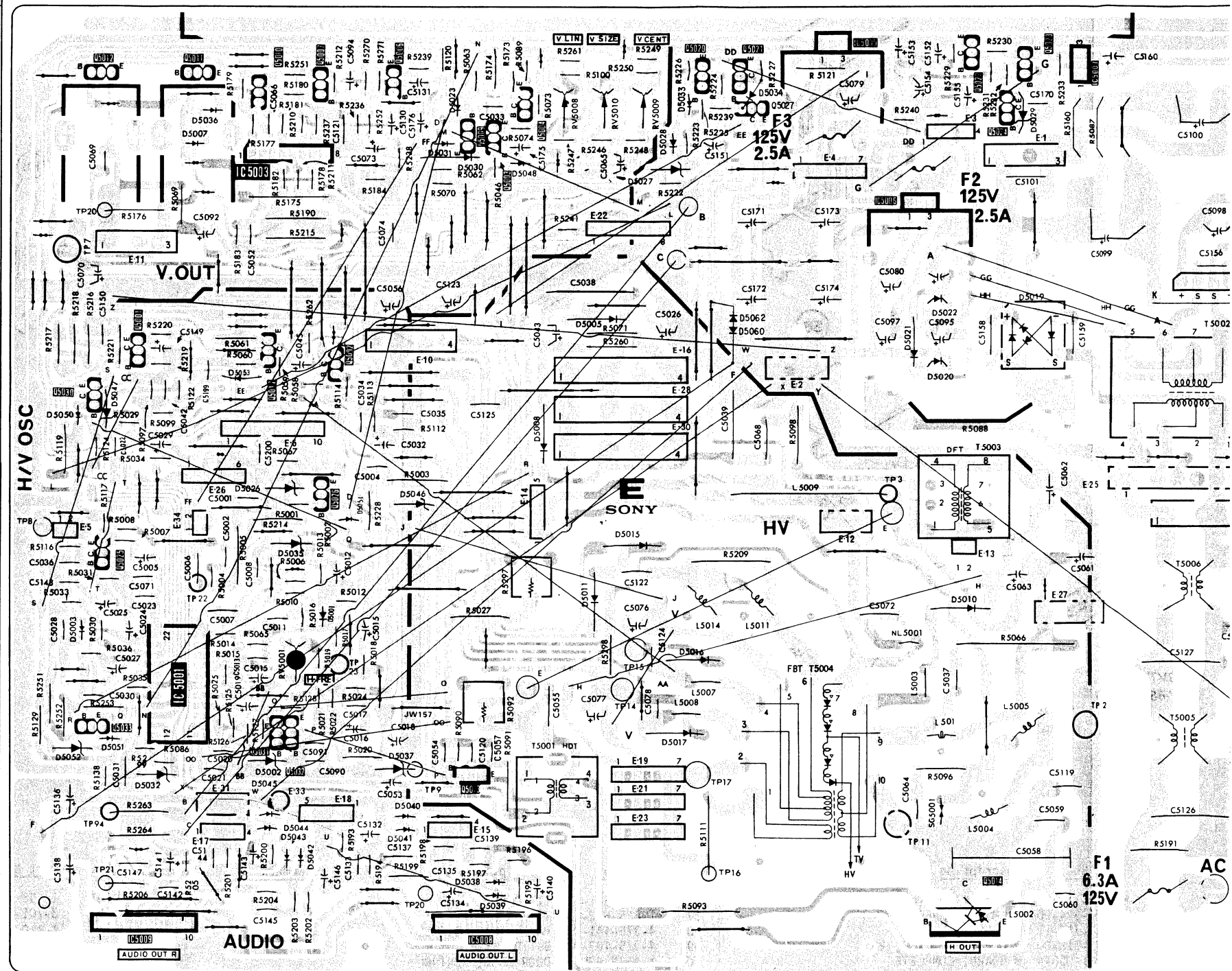
E

E

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

- E Board -

| Q, IC | D | ADJ | TP |
|--|--|-----|----|
| IC5005 5022 5023 5007 5020 5012 5021 5015 5006 5007 5010 5007 5023 5036 5028 5005 5009 5003 IC5003 | 5034 5010 5029 RV5008 RV5003 RV5003 | | |
| IC5006 | 5007 5031 5030 5027 | | 20 |
| | 5018 5022 5062 5060 5019 | | 7 |
| 5001 5017 5002 | 5021 5020 | | |
| 5030 | 5053 | | |
| | 5047 5050 | | |
| | 5008 | | |
| | 5026 5046 | | 3 |
| | 5051 | | 8 |
| 5025 | 5015 5035 | | |
| | 5011 5001 5000 | | 22 |
| | 5003 | | |
| | 5016 | | 15 |
| IC5001 | | | 23 |
| | 5017 | | 14 |
| 5031 5032 | 5051 5052 5002 5037 5032 | | 2 |
| 5013 | | | 9 |
| | 5045 5040 5044 5041 | | 17 |
| | 5043,5042 | | 94 |
| | 5038 | | 11 |
| | 5039 | | 16 |
| 5014 IC5009 IC5008 | | | 21 |
| | | | 20 |
| Q, IC | D | ADJ | T |



E P NAMP
R - G, B SUB OUT
V / H SAW, V / H PARABORA

D XR XG

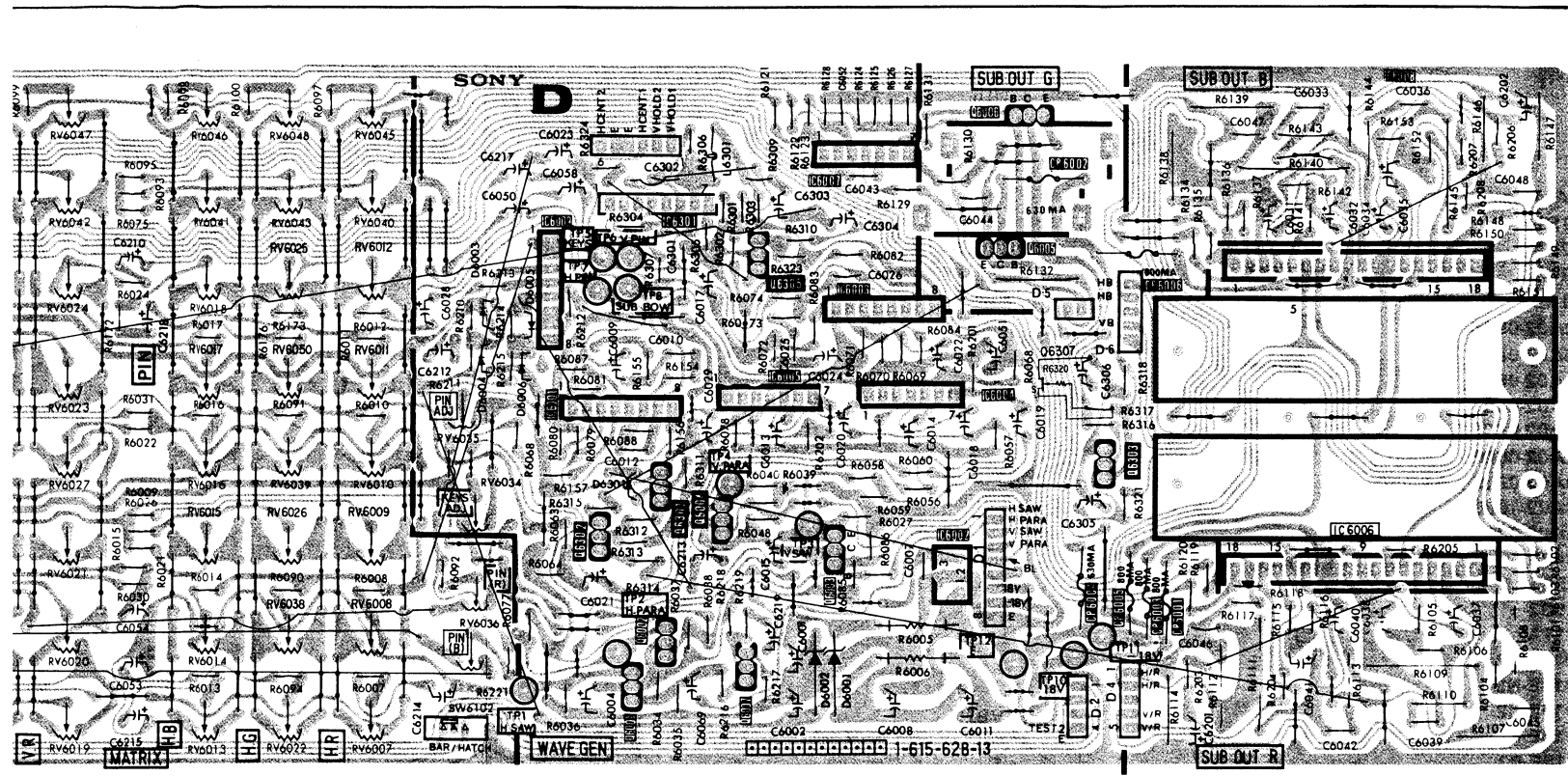
D XB

[SW REG]

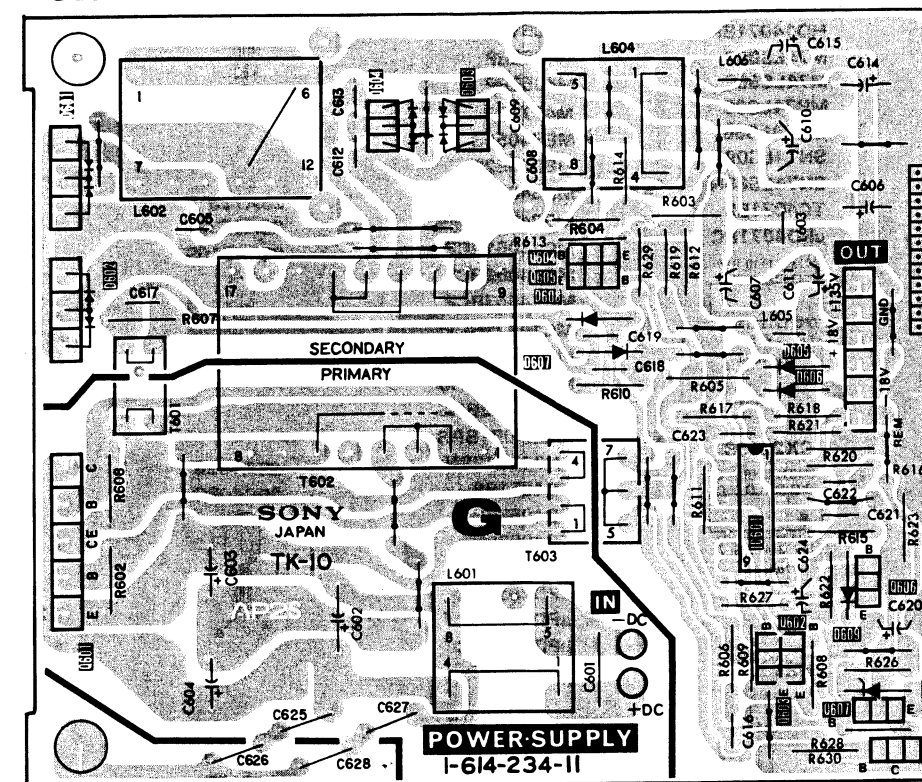
G

20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

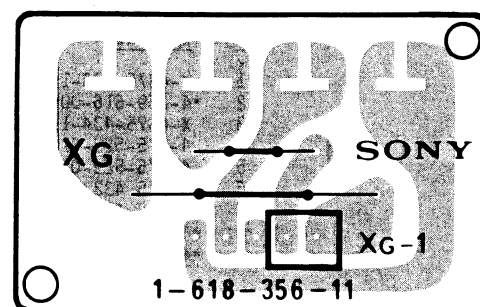
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|-----|--|--|--|---|--|---|--|--|----------------|--|-----------|----|--------------------|----|-----------|----|--|--|--------|--|--------|--|--|
| | | | | | | | | | | | | | | | IC6301 | | 6305 | | IC6007 | | 6005 6006 | | | | IC6008 | | | | |
| | | | | | | | | | | | | | | | 6302 6001 6002 | | 6004 6007 | | 6003 IC6003 IC6004 | | IC6002 | | | | 6307 | | IC6006 | | |
| | | | | | | | | | | | | | | | 6003 6004 | | 6005 6006 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 6301 | | | | 6002 6001 | | | | | | | | | | |
| RV6047 | RV6046 | RV6048 | RV6045 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6041 | RV6042 | RV6043 | RV6040 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6024 | RV6018 | RV6025 | RV6012 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6023 | RV6017 | RV6020 | RV6011 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6022 | RV6016 | RV6019 | RV6010 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6021 | RV6015 | RV6018 | RV6009 | RV6035 | RV6034 | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6020 | RV6014 | RV6017 | RV6008 | RV6036 | RV6007 | | | | | | | | | | | | | | | | | | | | | | | | |
| RV6019 | RV6013 | RV6016 | RV6007 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 5 6 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 7 8 | | | | 4 | | 3 | | | | | | 12 | | 10 | | 11 | | | | | | | |
| | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |



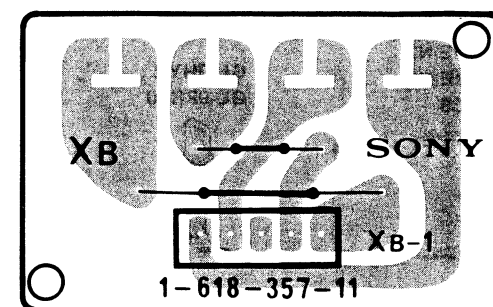
- G Board -



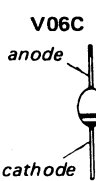
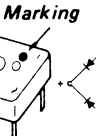
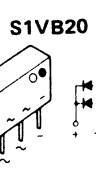
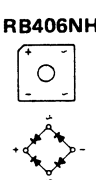
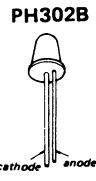
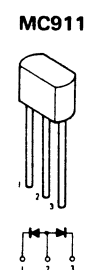
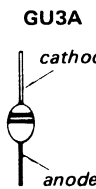
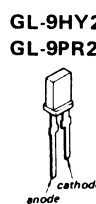
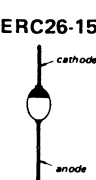
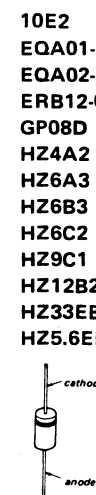
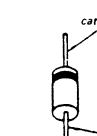
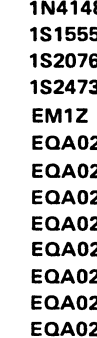
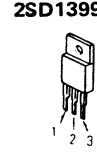
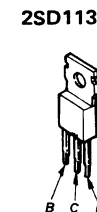
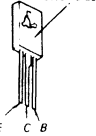
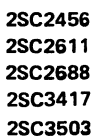
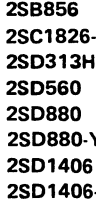
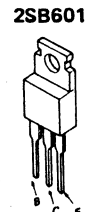
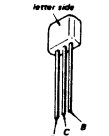
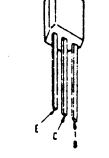
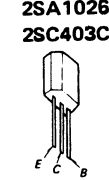
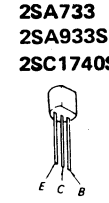
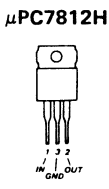
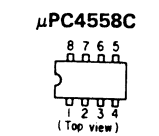
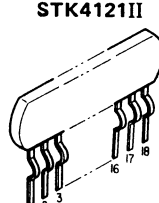
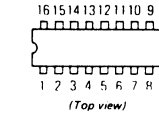
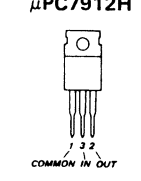
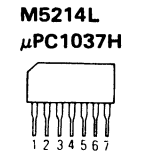
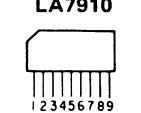
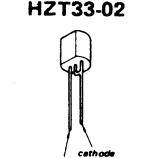
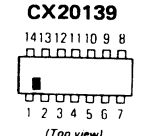
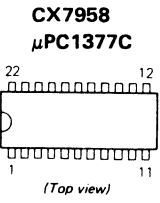
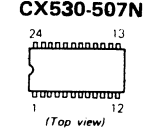
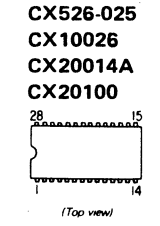
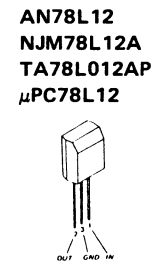
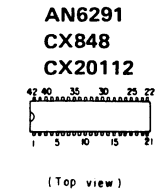
- XG Board -



- XB Board -



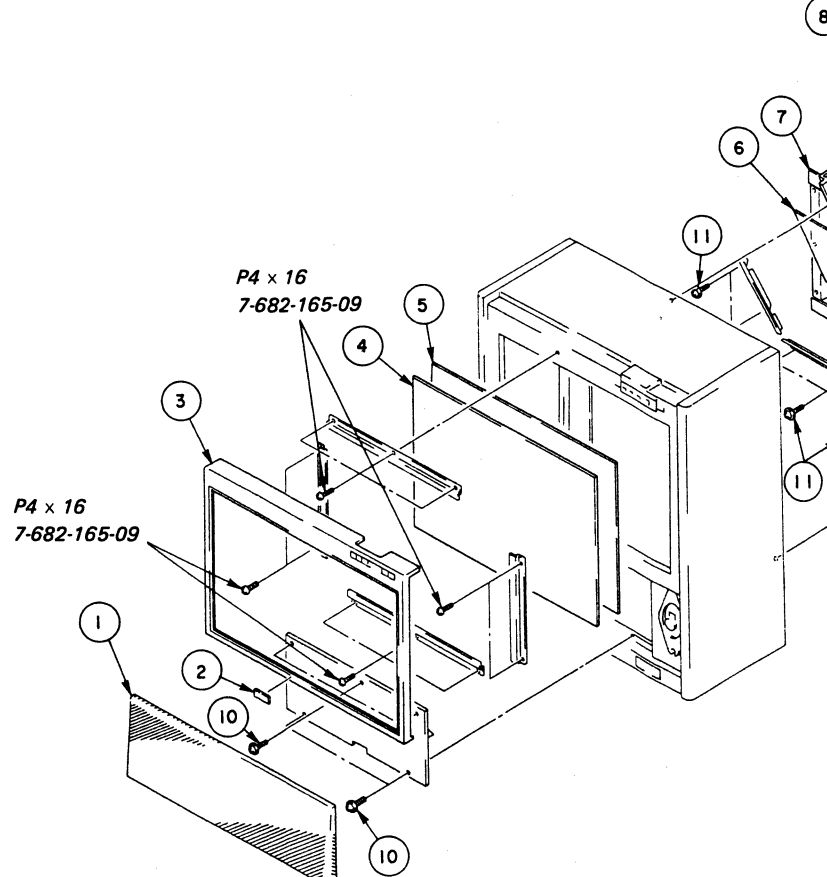
4-5. SEMICONDUCTORS



NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked " * " are since they are seldom r routine service. Some del anticipated when ordering


5-1. CABINET



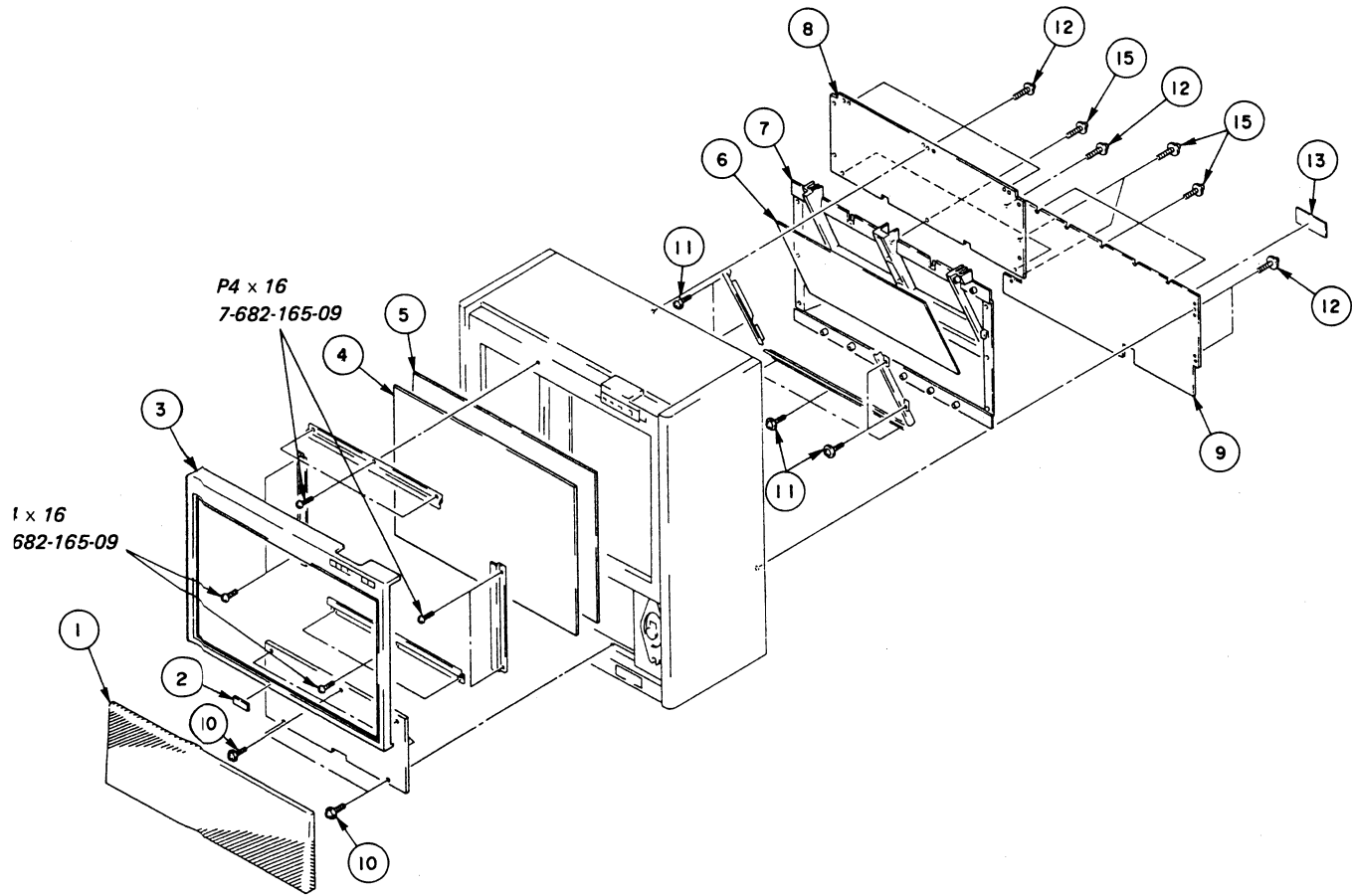
| No. | Part No. | Description | Remark | No. |
|-----|---------------|----------------------|--------|-----|
| 1 | X-4375-433-1 | GRILLE ASSY, SPEAKER | | 10 |
| 2 | *4-359-616-00 | EMBLEM, SONY | | 11 |
| 3 | X-4375-434-1 | FRAME ASSY, SCREEN | | 12 |
| 4 | 4-375-528-01 | PLATE (F), DIFFUSION | | 13 |
| 5 | 4-375-529-01 | PLATE (L), DIFFUSION | | |
| 6 | 4-375-432-01 | MIRROR, REFLECTION | | |
| 7 | *4-375-451-01 | COVER, MIRROR | | |
| 8 | *4-375-437-01 | COVER (U), BACK | | 15 |
| 9 | *4-375-452-01 | COVER (L), BACK | | |

SECTION 5
EXPLODED VIEWS

- NOTE:
 - Items with no part number and no description are not stocked because they are seldom required for routine service.
 - The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

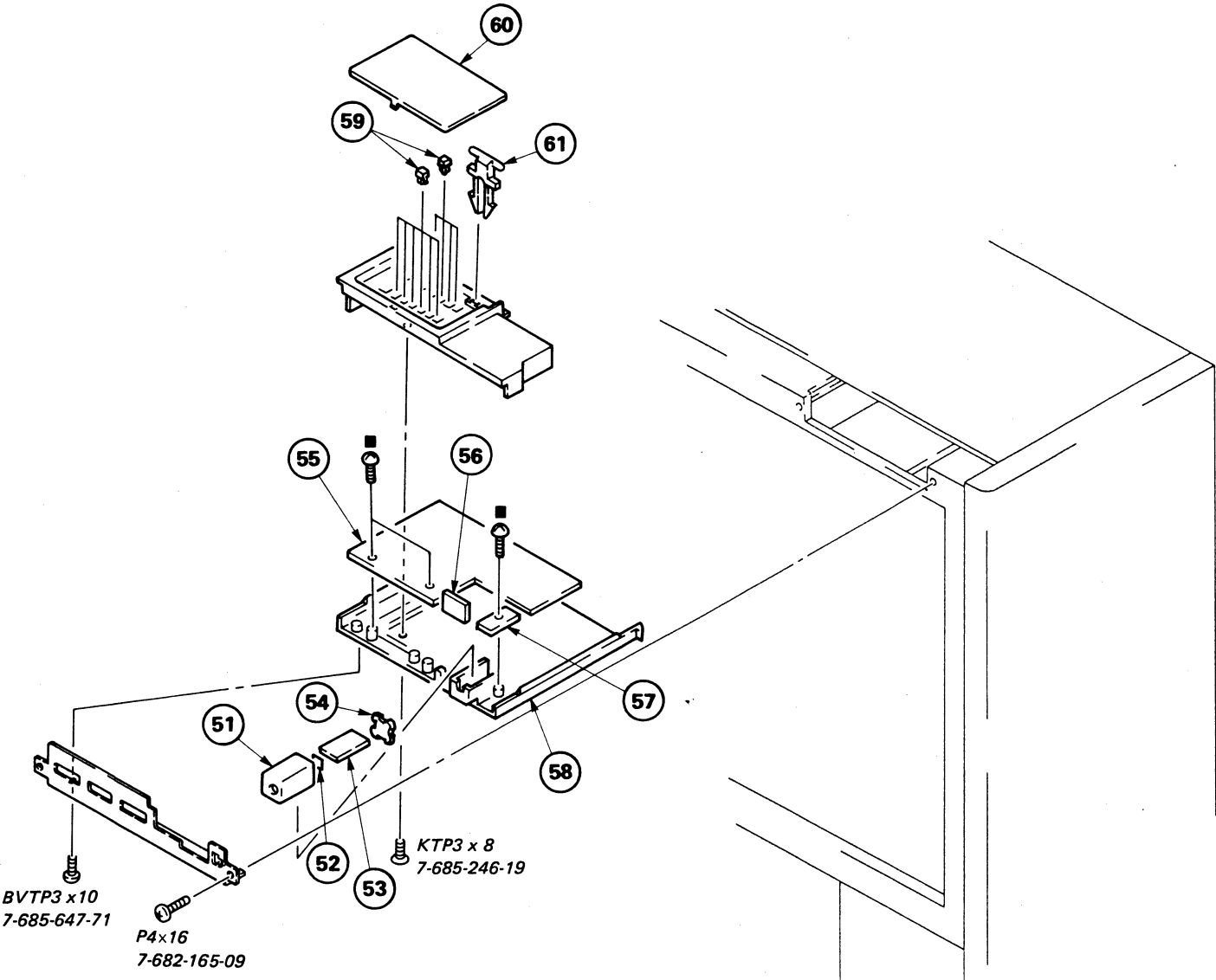
5-1. CABINET



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|---------------|----------------------|--------|-----|---------------|---------------------------------|--------|
| 1 | X-4375-433-1 | GRILLE ASSY, SPEAKER | | 10 | 4-375-414-11 | SCREW (M4X25), (+) PWH | |
| 2 | *4-359-616-00 | EMBLEM, SONY | | 11 | 3-703-251-00 | SCREW (+M4), IT TAPPING | |
| 3 | X-4375-434-1 | FRAME ASSY, SCREEN | | 12 | 3-701-910-31 | SCREW, SPECIAL | 2 |
| 4 | 4-375-528-01 | PLATE (F) DIFFUSION | | 13 | *4-380-295-01 | LABEL, MODEL NUMBER (A), PJ | |
| 5 | 4-375-529-01 | PLATE (L) DIFFUSION | | | | (Serial No.2,000,001 and later) | |
| 6 | 4-375-432-01 | MIRROR, REFLECTION | | | *4-380-852-01 | LABEL, MODEL NUMBER (A), PJ | |
| 7 | *4-375-451-01 | COVER, MIRROR | | | | (Serial No.7,000,001 and later) | |
| 8 | *4-375-437-01 | COVER (U), BACK | | 15 | 4-304-494-11 | SCREW, TAPPING, +PW4X16 | |
| 9 | *4-375-452-01 | COVER (L), BACK | | | | | |

5-2. CONTROL PANEL

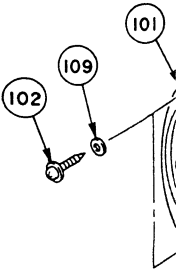
■ BVTP 3x8 7-685-646-71



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|---------------|---------------------------------|--------|-----|---------------|---------------------|--------|
| 51 | *4-342-117-00 | CASE, SHIELD (MAIN), R | | 56 | *1-615-621-12 | T1 BOARD | |
| 52 | *4-333-624-00 | FILM (N), SPECIAL | | 57 | *1-615-622-12 | T2 BOARD | |
| 53 | *1-611-717-11 | N BOARD | | 58 | 4-375-441-01 | PANEL (L), CONTROL | |
| 54 | *4-342-118-00 | LID, SHIELD CASE, R | | 59 | 4-375-403-01 | BUTTON, SUB CONTROL | |
| 55 | *A-1371-058-A | M BOARD, COMPLETE | | 60 | X-4375-430-1 | DOOR ASSY, CONTROL | |
| | | (Serial No.2,000,001 and later) | | 61 | 3-703-035-11 | SHAFT, LID | |
| | *A-1371-176-A | M BOARD, COMPLETE | | | | | |
| | | (Serial No.7,000,001 and later) | | | | | |

5-3. SPEAKER

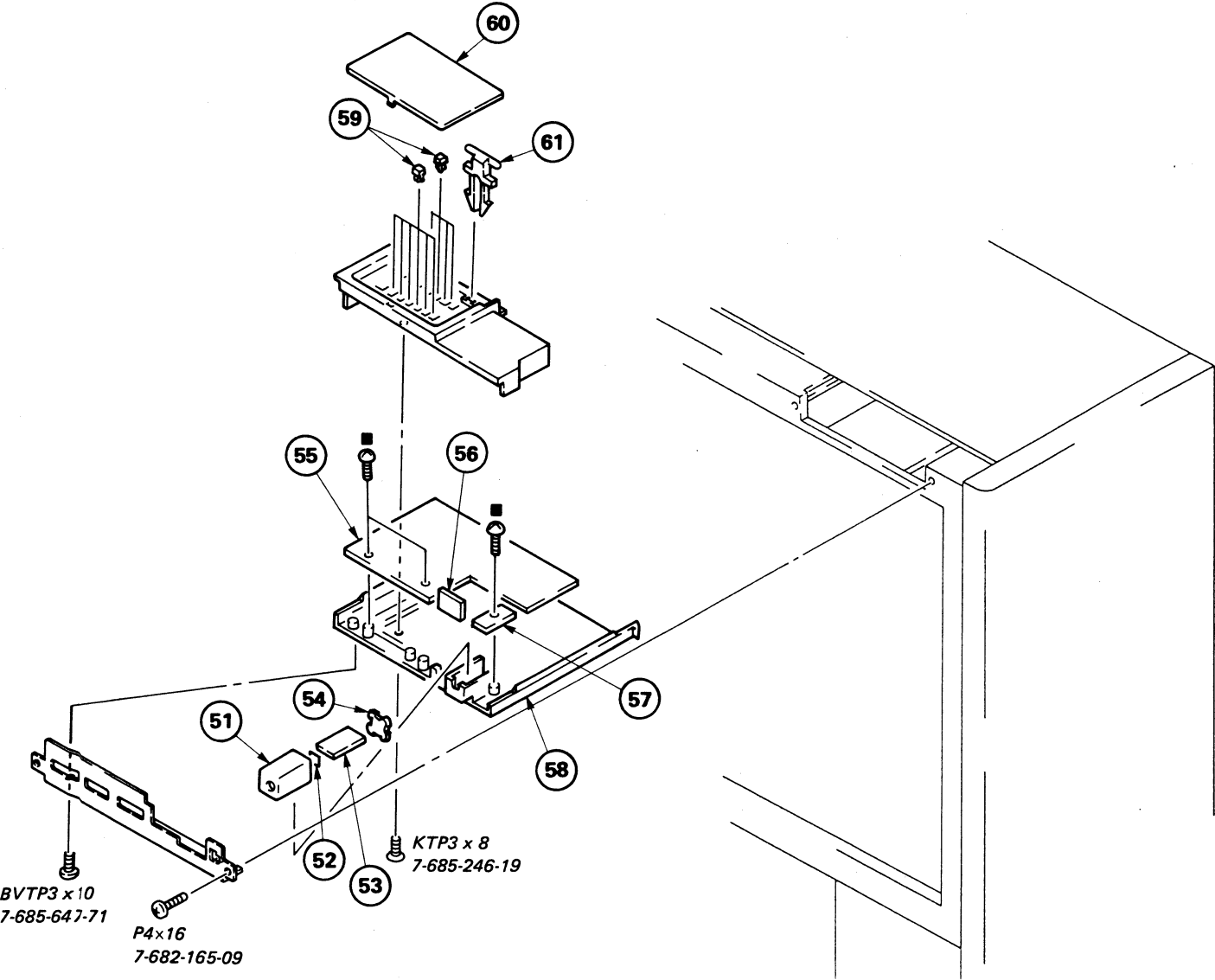
■ BVTP 3x8 7-6



| No. | Part No. | No. | Part No. |
|-----|----------|-----|----------|
| 101 | 1-503-6 | 103 | 4-352-0 |
| 102 | 3-701-9 | 104 | 3-703-0 |
| | 4-378-5 | 105 | X-4375- |
| | | 106 | *A-1340- |
| | | | *A-1340- |

5-2. CONTROL PANEL

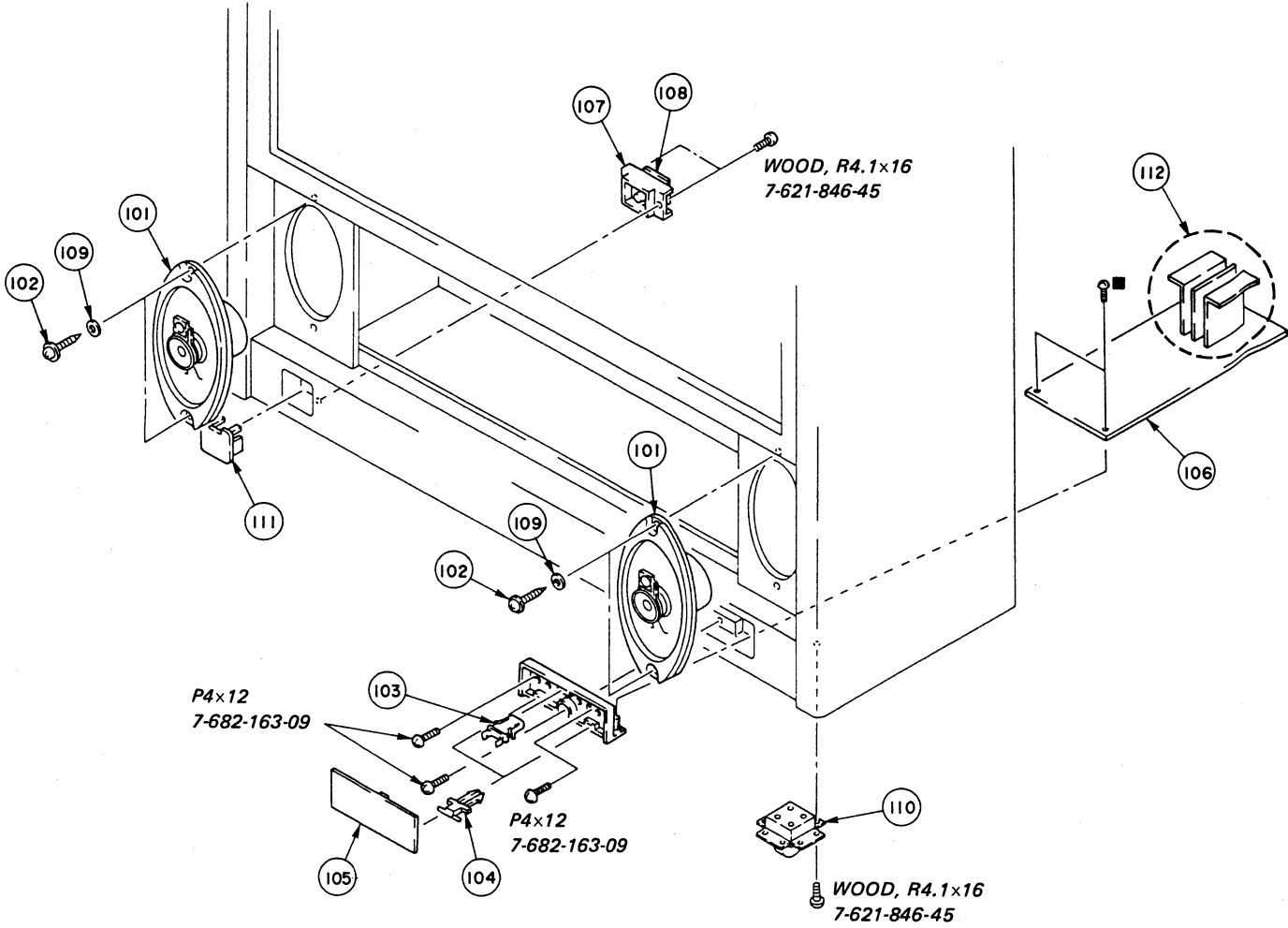
■ BVTP 3x8 7-685-646-71



| mark | No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|------|-----|---------------|--|--------|-----|---------------|---------------------|--------|
| | 51 | *4-342-117-00 | CASE, SHIELD (MAIN), R | | 56 | *1-615-621-12 | T1 BOARD | |
| | 52 | *4-333-624-00 | FILM (N), SPECIAL | | 57 | *1-615-622-12 | T2 BOARD | |
| | 53 | *1-611-717-11 | N BOARD | | 58 | 4-375-441-01 | PANEL (L), CONTROL | |
| | 54 | *4-342-118-00 | LID, SHIELD CASE, R | | 59 | 4-375-403-01 | BUTTON, SUB CONTROL | |
| | 55 | *A-1371-058-A | M BOARD, COMPLETE (Serial No.2,000,001 and later) | | 60 | X-4375-430-1 | DOOR ASSY, CONTROL | |
| | | *A-1371-176-A | M BOARD, COMPLETE (Serial No.7,000,001 and later) | | 61 | 3-703-035-11 | SHAFT, LID | |

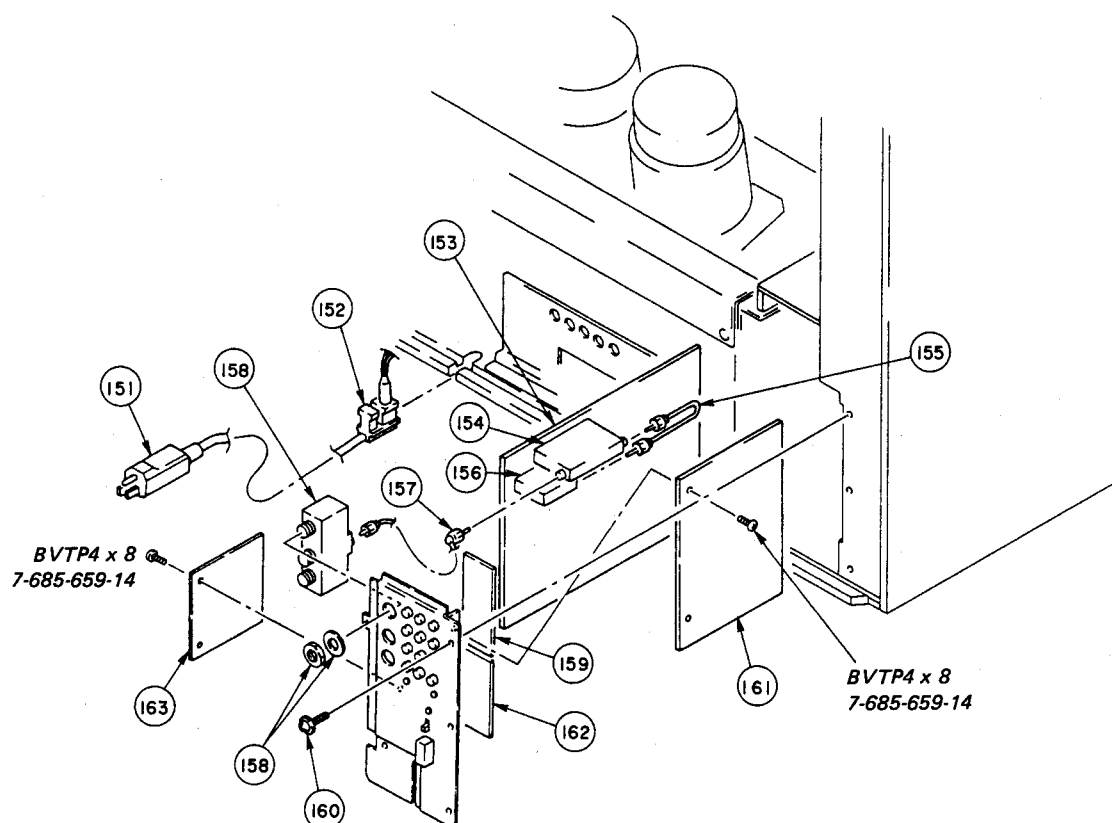
5-3. SPEAKER

■ BVTP 3x8 7-685-646-71



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|---------------|--|--------|-----|---------------|------------------------------|--------|
| 101 | 1-503-601-11 | SPEAKER | | 107 | 1-536-922-11 | TERMINAL BOARD, INPUT/OUTPUT | |
| 102 | 3-701-910-31 | SCREW, SPECIAL (Serial No. 7,000,001 and later) | | 108 | *1-615-619-11 | Z BOARD | |
| | 4-378-522-01 | SCREW, TAPPING, HEXAGON HEAD (Serial No. 2,000,001 and later) | | 109 | 4-844-815-00 | WASHER | |
| 103 | 4-352-034-00 | CATCHER, PUSH | | 110 | 4-346-435-11 | CASTER | |
| 104 | 3-703-035-11 | SHAFT, LID | | 111 | *4-375-538-01 | CAP, AV TERMINAL | |
| 105 | X-4375-404-3 | DOOR ASSY, REGISTRATION | | 112 | *2-261-207-00 | HEAT SINK, AF OUT | |
| 106 | *A-1340-804-A | D BOARD, COMPLETE (Serial No.2,000,001 and later) | | | | | |
| | *A-1340-844-A | D BOARD, COMPLETE (Serial No.7,000,001 and later) | | | | | |

5-4. TERMINAL BOARD



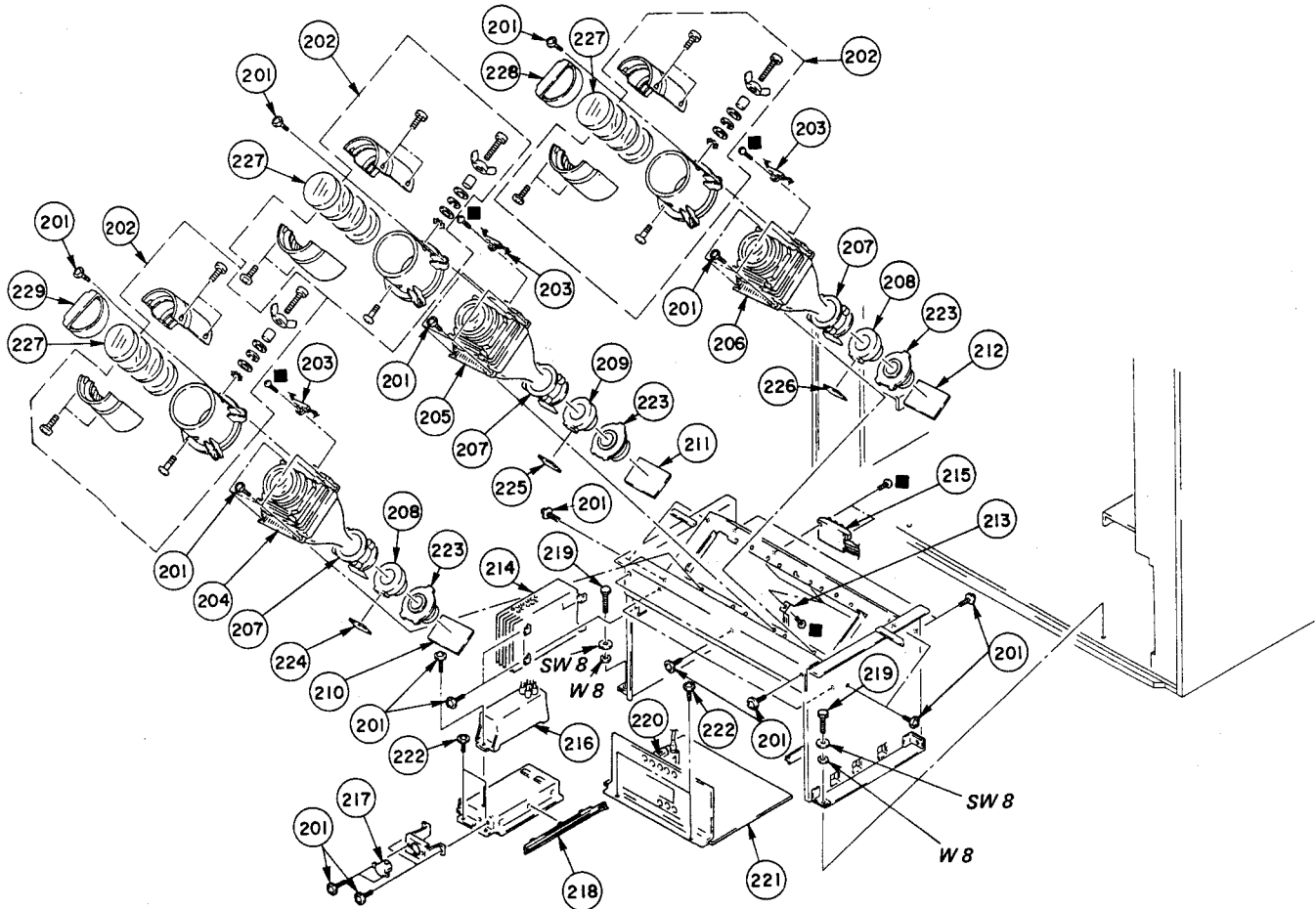
| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|----------------|--|--------|-----|----------------|--|--------|
| 151 | ▲.1-557-970-11 | CORD, POWER | | 158 | ▲.1-417-125-11 | SELECTOR, ANTENNA | |
| 152 | ▲.4-375-449-01 | HOLDER, AC CORD | | 159 | *1-615-618-11 | U1 BOARD | |
| 153 | *A-1296-147-A | A BOARD, COMPLETE (Serial No.2,000,001 and later) | | 160 | 3-701-910-31 | SCREW, SPECIAL | |
| | *A-1296-182-A | A BOARD, COMPLETE (Serial No.7,000,001 and later) | | 161 | *A-1275-074-A | U BOARD, COMPLETE (Serial No.2,000,001 and later) | |
| 154 | ▲.1-463-470-00 | TUNER, ET (BT-896) | | | *A-1275-078-A | U BOARD, COMPLETE (Serial No.7,000,001 and later) | |
| 155 | *1-551-382-00 | CABLE, P-P | | 162 | *1-618-588-11 | WA BOARD | |
| 156 | ▲.1-463-471-33 | SYNTHESIZER UNIT, FREQUENCY | | 163 | *A-1389-761-A | WB BOARD, COMPLETE | |
| 157 | *1-557-056-31 | CABLE, P-P | | | | | |

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

5-5. CHASSIS

- BVTP 3×8 7-685-646-71
- W8 7-688-007-12
- SW8 7-623-214-22



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|---------------|-----------------------------|--------|-----|---------------|---------------------------|---------------------------------|
| 201 | 3-703-251-00 | SCREW (+M4), IT TAPPING | | 217 | ▲1-509-841-12 | OUTLET, AC | |
| 202 | 4-375-447-03 | LENS (DEV.B), DELTA 16-OC | | 218 | *4-024-014-00 | GUIDE, PC BOARD | |
| 203 | ▲1-570-258-21 | SWITCH, THERMAL REED | | 219 | 4-359-607-00 | SCREW, FIXED, CHASSIS | |
| 204 | ▲8-737-552-05 | CRT (SD-174(B)) | | 220 | ▲1-439-366-12 | TRANSFORMER ASSY, FLYBACK | |
| 205 | ▲8-737-551-05 | CRT (SD-174(G)) | | 221 | *A-1345-624-A | E BOARD, COMPLETE | (Serial No.2,000,001 and later) |
| 206 | ▲8-737-553-05 | CRT (SD-174(R)) | | | *A-1345-635-A | E BOARD, COMPLETE | (Serial No.7,000,001 and later) |
| 207 | ▲1-451-269-12 | DEFLECTION YOKE (SY-174) | | 222 | 3-701-810-61 | SCREW, TERMINAL | |
| 208 | ▲1-452-361-12 | NECK ASSY, CRT (NA365) | | 223 | ▲1-452-261-31 | CRT NECK ASSY (362) | |
| 209 | ▲1-452-361-22 | NECK ASSY, CRT (NA365) | | 224 | *1-618-357-11 | XB BOARD | |
| 210 | *1-615-625-11 | CB BOARD | | 225 | *1-618-356-11 | XG BOARD | |
| 211 | *1-615-624-11 | CG BOARD | | 226 | *1-618-355-11 | XR BOARD | |
| 212 | *1-615-623-11 | CR BOARD | | 227 | *4-375-505-01 | IRIS, LENS | |
| 213 | 4-332-209-00 | SPRING | | 228 | 4-375-502-01 | FILTER, LENS | |
| 214 | ▲1-413-219-11 | SWITCHING REGULATOR (TK-10) | | 229 | 4-375-502-11 | FILTER, LENS | |
| 215 | ▲1-230-089-21 | RESISTOR ASSY, HIGH-VOLTAGE | | | | | |
| 216 | ▲1-453-099-11 | DC BLOCK, HIGH-VOLTAGE | | | | | |

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

SECTION 6
ELECTRICAL PARTS LIST

U

NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

- MF : μ F, PF : μ F

- RESISTORS
• All resistors are in ohms
• F : nonflammable

COILS

- MMH : mH, UH : μ H

- The components identified by **A** in this parts list have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------------|--------------|---|---------|---------|--------------|------------------|----------|
| *A-1275-074-A | | U BOARD, COMPLETE (Serial No.2,000,001 and later) ***** | | C8062 | 1-123-330-00 | ELECT 22MF | 20% 25V |
| *A-1275-078-A | | U BOARD, COMPLETE (Serial No.7,000,001 and later) ***** | | C8063 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| | | | | C8064 | 1-101-005-00 | CERAMIC 0.022MF | 50V |
| | | | | C8200 | 1-101-001-00 | CERAMIC 0.001MF | 50V |
| | | | | C8201 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| | | | | C8202 | 1-101-005-00 | CERAMIC 0.022MF | 50V |
| | | | | C8810 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8811 | 1-108-381-91 | MYLAR 0.022MF | 10% 100V |
| | | | | C8812 | 1-106-196-00 | MYLAR 0.01MF | 10% 100V |
| | | | | C8813 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8814 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8815 | 1-123-369-00 | ELECT 4.7MF | 20% 50V |
| | | | | C8816 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8818 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8819 | 1-130-309-00 | FILM 0.033MF | 5% 100V |
| | | | | C8820 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8821 | 1-130-279-00 | FILM 0.0018MF | 5% 100V |
| | | | | C8822 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C8823 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8824 | 1-102-125-00 | CERAMIC 0.0047MF | 10% 50V |
| | | | | C8825 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8826 | 1-123-323-00 | ELECT 470MF | 20% 16V |
| | | | | C8827 | 1-123-356-00 | ELECT 10MF | 20% 50V |
| | | | | C8828 | 1-108-373-91 | MYLAR 0.0047MF | 10% 100V |
| | | | | C8829 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8830 | 1-123-308-00 | ELECT 220MF | 20% 10V |
| | | | | C8832 | 1-130-281-00 | FILM 0.0022MF | 5% 100V |
| | | | | C8833 | 1-131-343-00 | TANTALUM 0.22MF | 10% 35V |
| | | | | C8834 | 1-131-343-00 | TANTALUM 0.22MF | 10% 35V |
| | | | | C8835 | 1-130-281-00 | FILM 0.0022MF | 5% 100V |
| | | | | C8836 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8837 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C8838 | 1-130-281-00 | FILM 0.0022MF | 5% 100V |
| | | | | C8839 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C8840 | 1-130-285-00 | FILM 0.0033MF | 5% 100V |
| | | | | C8841 | 1-130-285-00 | FILM 0.0033MF | 5% 100V |
| | | | | C8842 | 1-131-345-00 | TANTALUM 0.47MF | 10% 35V |
| | | | | C8843 | 1-130-309-00 | FILM 0.033MF | 5% 100V |
| | | | | C8844 | 1-130-285-00 | FILM 0.0033MF | 5% 100V |
| | | | | C8845 | 1-130-285-00 | FILM 0.0033MF | 5% 100V |
| | | | | C8846 | 1-131-371-00 | TANTALUM 10MF | 10% 16V |
| | | | | C8847 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| | | | | C8848 | 1-108-622-91 | MYLAR 0.0047MF | 10% 100V |
| | | | | C8849 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C8850 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C8851 | 1-123-330-00 | ELECT 22MF | 20% 16V |
| | | | | C8852 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| | | | | C8853 | 1-123-356-00 | ELECT 10MF | 20% 50V |
| | | | | C8854 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C8855 | 1-123-382-00 | ELECT 3.3MF | 20% 50V |
| | | | | C8856 | 1-108-622-91 | MYLAR 0.0047MF | 10% 100V |
| | | | | C8857 | 1-131-368-00 | TANTALUM 3.3MF | 10% 16V |
| | | | | C8858 | 1-130-297-00 | FILM 0.01MF | 5% 100V |
| C8001 | 1-123-318-00 | ELECT 33MF | 20% 16V | | | | |
| C8002 | 1-123-318-00 | ELECT 33MF | 20% 16V | | | | |
| C8003 | 1-123-318-00 | ELECT 33MF | 20% 16V | | | | |
| C8004 | 1-123-318-00 | ELECT 33MF | 20% 16V | | | | |
| C8005 | 1-123-356-00 | ELECT 10MF | 20% 16V | | | | |
| C8006 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8007 | 1-123-356-00 | ELECT 10MF | 20% 16V | | | | |
| C8008 | 1-123-311-00 | ELECT 1000MF | 20% 10V | | | | |
| C8011 | 1-102-963-00 | CERAMIC 33PF | 5% 50V | | | | |
| C8024 | 1-102-971-00 | CERAMIC 82PF | 5% 50V | | | | |
| C8025 | 1-101-880-00 | CERAMIC 47PF | 5% 50V | | | | |
| C8026 | 1-123-356-00 | ELECT 10MF | 20% 16V | | | | |
| C8027 | 1-123-356-00 | ELECT 10MF | 20% 16V | | | | |
| C8028 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8030 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8031 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8032 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8033 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8034 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8035 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8036 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8037 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8038 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8039 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8040 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8041 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8042 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8043 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8044 | 1-123-333-00 | ELECT 100MF | 20% 16V | | | | |
| C8045 | 1-123-356-00 | ELECT 10MF | 20% 25V | | | | |
| C8046 | 1-123-356-00 | ELECT 10MF | 20% 25V | | | | |
| C8047 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8048 | 1-123-380-00 | ELECT 1MF | 20% 50V | | | | |
| C8049 | 1-123-318-00 | ELECT 33MF | 20% 16V | | | | |
| C8050 | 1-108-591-00 | MYLAR 0.033MF | 10% 50V | | | | |
| C8051 | 1-108-825-91 | MYLAR 0.001MF | 10% 50V | | | | |
| C8052 | 1-108-825-91 | MYLAR 0.001MF | 10% 50V | | | | |
| C8053 | 1-108-591-00 | MYLAR 0.033MF | 10% 50V | | | | |
| C8054 | 1-123-325-00 | ELECT 2200MF | 20% 16V | | | | |
| C8055 | 1-101-001-00 | CERAMIC 0.001MF | 50V | | | | |
| C8056 | 1-101-001-00 | CERAMIC 0.001MF | 50V | | | | |
| C8058 | 1-101-001-00 | CERAMIC 0.001MF | 50V | | | | |
| C8059 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | | | | |
| C8060 | 1-101-005-00 | CERAMIC 0.022MF | 50V | | | | |
| C8061 | 1-123-330-00 | ELECT 22MF | 20% 25V | | | | |

U

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|----------------------|--------|---------|--------------|---------------------|--------|
| C8870 | 1-101-005-00 | CERAMIC 0.022MF | 50V | Q8040 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| | | <u>DIODE</u> | | Q8041 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D8004 | 8-719-911-19 | DIODE 1SS119 | | Q8042 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D8008 | 8-719-911-19 | DIODE 1SS119 | | Q8044 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D8009 | 8-719-911-19 | DIODE 1SS119 | | Q8045 | 8-729-900-36 | TRANSISTOR DTC124ES | |
| D8010 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D8013 | 8-719-911-19 | DIODE 1SS119 | | Q8046 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| | | | | Q8047 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D8014 | 8-719-911-19 | DIODE 1SS119 | | Q8830 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D8015 | 8-719-911-19 | DIODE 1SS119 | | Q8831 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| D8016 | 8-719-911-19 | DIODE 1SS119 | | Q8872 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| D8017 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D8018 | 8-719-911-19 | DIODE 1SS119 | | Q8873 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| | | | | | | <u>RESISTOR</u> | |
| D8022 | 8-719-102-73 | DIODE RD6.2E-N1 | | R8001 | 1-247-713-11 | CARBON 1K 5% | 1/4W |
| D8023 | 8-719-102-73 | DIODE RD6.2E-N1 | | R8002 | 1-249-419-11 | CARBON 1.5K 5% | 1/6W |
| D8030 | 8-719-200-02 | DIODE 10E2 | | R8003 | 1-249-419-11 | CARBON 1.5K 5% | 1/6W |
| D8820 | 8-719-102-88 | DIODE RD9.1E-N3 | | R8004 | 1-249-405-11 | CARBON 100 5% | 1/6W |
| D8821 | 8-719-102-74 | DIODE RD6.2E-N2 | | R8005 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| | | <u>IC</u> | | R8006 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| IC8001 | 8-759-240-52 | IC TC4052BP | | R8007 | 1-247-823-00 | CARBON 470 5% | 1/6W |
| IC8002 | 8-759-140-53 | IC UPD4053BC | | R8008 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| IC8005 | 8-757-948-00 | IC CX7948 | | R8009 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| IC8006 | 8-759-140-51 | IC UPD4051BC | | R8010 | 1-247-859-00 | CARBON 15K 5% | 1/6W |
| IC8007 | 8-759-140-51 | IC UPD4051BC | | | | | |
| IC8008 | 8-759-907-16 | IC CX10026 | | R8011 | 1-247-857-00 | CARBON 12K 5% | 1/6W |
| IC8009 | 8-759-600-02 | IC M5218L | | R8012 | 1-247-823-00 | CARBON 470 5% | 1/6W |
| IC8810 | 8-752-011-20 | IC CX20112 | | R8013 | 1-249-429-11 | CARBON 10K 5% | 1/6W |
| IC8811 | 8-759-400-88 | IC AN6291 | | R8014 | 1-247-804-00 | CARBON 75 5% | 1/6W |
| IC8812 | 8-759-145-58 | IC UPC4558C | | R8018 | 1-249-441-11 | CARBON 100K 5% | 1/6W |
| | | <u>COIL</u> | | | | | |
| L8801 | 1-408-242-00 | MICRO INDUCTOR 10MMH | | R8024 | 1-249-419-11 | CARBON 1.5K 5% | 1/6W |
| | | <u>TRANSISTOR</u> | | R8025 | 1-247-799-00 | CARBON 47 5% | 1/6W |
| Q8001 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8035 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| Q8002 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8059 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| Q8003 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8060 | 1-249-425-11 | CARBON 4.7K 5% | 1/6W |
| Q8004 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8061 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| Q8005 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8062 | 1-249-425-11 | CARBON 4.7K 5% | 1/6W |
| Q8006 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R8063 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| Q8008 | 8-729-168-82 | TRANSISTOR 2SC2688 | | R8066 | 1-247-823-00 | CARBON 470 5% | 1/6W |
| Q8011 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R8091 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| Q8021 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | | |
| Q8022 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R8093 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| Q8023 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R8094 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| Q8025 | 8-729-900-36 | TRANSISTOR DTC124ES | | R8095 | 1-247-903-00 | CARBON 1M 5% | 1/6W |
| Q8032 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R8096 | 1-249-432-11 | CARBON 18K 5% | 1/6W |
| Q8033 | 8-729-900-36 | TRANSISTOR DTC124ES | | R8097 | 1-249-435-11 | CARBON 33K 5% | 1/6W |
| Q8036 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | | |
| Q8037 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8098 | 1-249-429-11 | CARBON 10K 5% | 1/6W |
| Q8038 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8099 | 1-249-429-11 | CARBON 10K 5% | 1/6W |
| Q8039 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R8100 | 1-249-417-11 | CARBON 1K 5% | 1/6W |
| | | | | R8101 | 1-249-405-11 | CARBON 100 5% | 1/6W |
| | | | | R8103 | 1-249-405-11 | CARBON 100 5% | 1/6W |
| | | | | | | | |
| | | | | R8106 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| | | | | R8107 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| | | | | R8108 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| | | | | R8109 | 1-249-433-11 | CARBON 22K 5% | 1/6W |
| | | | | R8110 | 1-249-433-11 | CARBON 22K 5% | 1/6W |



| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| R8111 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8173 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R8112 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8174 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R8113 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8175 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8114 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8176 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8115 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8177 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8116 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8178 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8117 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8179 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8118 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8180 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8119 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8181 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8120 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8182 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8121 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8188 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W |
| R8122 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8189 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8123 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8190 | 1-249-405-11 | CARBON | 100 5% 1/6W |
| R8124 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8200 | 1-249-405-11 | CARBON | 100 5% 1/6W |
| R8125 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8201 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8126 | 1-247-823-00 | CARBON | 470 5% 1/6W | R8202 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8127 | 1-247-823-00 | CARBON | 470 5% 1/6W | R8203 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8128 | 1-247-151-00 | CARBON | 6.8K 5% 1/4W | R8208 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W |
| R8129 | 1-247-837-00 | CARBON | 1.8K 5% 1/6W | R8811 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8130 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8812 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W |
| R8131 | 1-249-437-11 | CARBON | 47K 5% 1/6W | R8813 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8132 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8814 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8133 | 1-249-437-11 | CARBON | 47K 5% 1/6W | R8815 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8134 | 1-249-405-11 | CARBON | 100 5% 1/6W | R8816 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R8137 | 1-249-437-11 | CARBON | 47K 5% 1/6W | R8817 | 1-215-470-00 | METAL | 110K 1% 1/6W |
| R8139 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R8818 | 1-215-470-00 | METAL | 110K 1% 1/6W |
| R8140 | 1-247-823-00 | CARBON | 470 5% 1/6W | R8819 | 1-247-819-00 | CARBON | 330 5% 1/6W |
| R8141 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8820 | 1-247-873-00 | CARBON | 56K 5% 1/6W |
| R8142 | 1-247-823-00 | CARBON | 470 5% 1/6W | R8821 | 1-247-873-00 | CARBON | 56K 5% 1/6W |
| R8143 | 1-249-441-11 | CARBON | 100K 5% 1/6W | R8822 | 1-249-414-11 | CARBON | 560 5% 1/6W |
| R8144 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R8823 | 1-215-430-00 | METAL | 2.4K 1% 1/6W |
| R8145 | 1-249-415-11 | CARBON | 680 5% 1/6W | R8824 | 1-247-853-00 | CARBON | 8.2K 5% 1/6W |
| R8146 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R8825 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R8147 | 1-249-415-11 | CARBON | 680 5% 1/6W | R8826 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R8148 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R8827 | 1-213-129-00 | METAL OXIDE | 68 5% 1W F |
| R8149 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R8828 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R8150 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R8830 | 1-247-903-00 | CARBON | 1M 5% 1/6W |
| R8151 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R8831 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W |
| R8152 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R8832 | 1-247-700-11 | CARBON | 100 5% 1/4W |
| R8154 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R8834 | 1-249-435-11 | CARBON | 33K 5% 1/6W |
| R8155 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R8835 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W |
| R8160 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R8836 | 1-247-885-00 | CARBON | 180K 5% 1/6W |
| R8162 | 1-247-804-00 | CARBON | 75 5% 1/6W | R8837 | 1-247-844-00 | CARBON | 3.6K 5% 1/6W |
| R8163 | 1-247-804-00 | CARBON | 75 5% 1/6W | R8838 | 1-247-885-00 | CARBON | 180K 5% 1/6W |
| R8164 | 1-247-804-00 | CARBON | 75 5% 1/6W | R8839 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R8165 | 1-249-422-11 | CARBON | 2.7K 5% 1/6W | R8840 | 1-247-811-00 | CARBON | 150 5% 1/6W |
| R8166 | 1-247-837-00 | CARBON | 1.8K 5% 1/6W | R8841 | 1-247-885-00 | CARBON | 180K 5% 1/6W |
| R8167 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R8842 | 1-247-848-00 | CARBON | 5.1K 5% 1/6W |
| R8168 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8843 | 1-247-885-00 | CARBON | 180K 5% 1/6W |
| R8169 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R8844 | 1-247-844-00 | CARBON | 3.6K 5% 1/6W |
| R8170 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8845 | 1-247-893-00 | CARBON | 390K 5% 1/6W |
| R8171 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R8846 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R8172 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R8847 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W |

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| Ref.No. | Part No. | Description | Remark |
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| R8849 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R8850 | 1-247-721-11 | CARBON 4.7K 5% 1/4W | |
| R8851 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R8852 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R8853 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| R8854 | 1-247-811-00 | CARBON 150 5% 1/6W | |
| R8855 | 1-247-869-00 | CARBON 39K 5% 1/6W | |
| R8856 | 1-247-887-00 | CARBON 220K 5% 1/6W | |
| R8857 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R8858 | 1-247-893-00 | CARBON 390K 5% 1/6W | |
| R8859 | 1-249-429-11 | CARBON 10K 5% 1/6W | |
| R8862 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| R8863 | 1-249-434-11 | CARBON 27K 5% 1/6W | |

VARIABLE RESISTOR

| | | |
|--------|--------------|-------------------------------|
| RV8001 | 1-230-271-00 | RES, ADJ, CARBON 4.7K |
| RV8002 | 1-230-271-00 | RES, ADJ, CARBON 4.7K |
| RV8811 | 1-228-728-00 | RES, ADJ, CERAMIC CARBON 100K |
| RV8812 | 1-228-726-00 | RES, ADJ, CERAMIC CARBON 33K |
| RV8814 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K |
| RV8815 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K |
| RV8816 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K |
| RV8817 | 1-228-731-00 | RES, ADJ, CERAMIC CARBON 470K |
| RV8830 | 1-228-721-00 | RES, ADJ, CERAMIC CARBON 2.2K |
| RV8831 | 1-228-725-00 | RES, ADJ, CERAMIC CARBON 22K |
| RV8832 | 1-228-724-00 | RES, ADJ, CERAMIC CARBON 10K |

CONNECTOR

| | | |
|-------|---------------|----------------------------|
| U8001 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P |
| U8002 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P |
| U8003 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P |
| U8004 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P |
| U8005 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P |
| U8006 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P |
| U8008 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P |
| U8010 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P |
| U8011 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P |
| U8012 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P |
| U8013 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P |
| U8014 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P |
| U8015 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P |
| U8016 | *1-508-784-00 | 1P PLUG |

CRYSTAL

| | | |
|-------|--------------|---------------------|
| X8001 | 1-527-396-00 | OSCILLATOR, CRYSTAL |
|-------|--------------|---------------------|

| Ref.No. | Part No. | Description | Remark |
|---------|---------------|---|--------|
| | *1-615-618-11 | U1 BOARD ***** | |
| | *1-615-619-11 | Z BOARD ***** | |
| | *1-611-717-11 | N BOARD ***** | |
| | | CAPACITOR | |
| C1 | 1-123-611-00 | ELECT 1MF 20% 50V | |
| C2 | 1-123-613-00 | ELECT 3.3MF 20% 50V | |
| C3 | 1-102-820-00 | CERAMIC 330PF 5% 50V | |
| C4 | 1-123-821-00 | ELECT 47MF 20% 16V | |
| | | DIODE | |
| D1 | 8-719-110-32 | DIODE PH302B | |
| | | IC | |
| IC1 | 8-752-010-60 | IC CX20106 | |
| | | RESISTOR | |
| R1 | 1-247-799-00 | CARBON 47 5% 1/6W | |
| R2 | 1-247-775-00 | CARBON 4.7 5% 1/6W | |
| R3 | 1-214-784-00 | METAL 200K 1% 1/4W | |
| R4 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| | *A-1296-147-A | A BOARD, COMPLETE (Serial No.2,000,001 and later) ***** | |
| | *A-1296-182-A | A BOARD, COMPLETE (Serial No.7,000,001 and later) ***** | |
| | | CONNECTOR | |
| A1 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | |
| A2 | *1-564-446-11 | PLUG, CONNECTOR (2.5MM) 10P | |
| A3 | *1-508-766-00 | 4P PLUG (M) | |
| A6 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | |
| A7 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P | |
| A8 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | |
| A9 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | |
| A10 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| A11 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | |
| A13 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | |
| A14 | *1-564-446-11 | PLUG, CONNECTOR (2.5MM) 10P | |
| A15 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | |
| A16 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P | |
| A19 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P | |
| A21 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-----------|---------------|----------------------------|----------|---------|--------------|------------------|-----------|
| A22 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | C155 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V |
| A23 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | C156 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| CAPACITOR | | | | C157 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C101 | 1-102-816-00 | CERAMIC 120PF | 5% 50V | C158 | 1-108-618-91 | MYLAR 0.0022MF | 10% 100V |
| C102 | 1-102-816-00 | CERAMIC 120PF | 5% 50V | C159 | 1-102-824-21 | CERAMIC 470PF | 5% 50V |
| C103 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V | C190 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C104 | 1-123-447-00 | ELECT 0.22MF | 20% 50V | C201 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C106 | 1-123-380-00 | ELECT 1MF | 20% 50V | C202 | 1-102-128-21 | CERAMIC 0.0082MF | 10% 50V |
| C107 | 1-123-318-00 | ELECT 33MF | 20% 16V | C203 | 1-102-851-00 | CERAMIC 15PF | 5% 50V |
| C108 | 1-101-001-00 | CERAMIC 0.001MF | 50V | C204 | 1-102-525-00 | CERAMIC 68PF | 5% 50V |
| C110 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | C205 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C111 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | C206 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C112 | 1-123-381-00 | ELECT 2.2MF | 20% 50V | C207 | 1-101-884-00 | CERAMIC 56PF | 5% 50V |
| C113 | 1-102-976-00 | CERAMIC 180PF | 5% 50V | C208 | 1-161-059-00 | CERAMIC 0.047MF | 10% 25V |
| C114 | 1-102-976-00 | CERAMIC 180PF | 5% 50V | C209 | 1-102-824-21 | CERAMIC 470PF | 5% 50V |
| C116 | 1-123-369-00 | ELECT 4.7MF | 20% 25V | C211 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C117 | 1-101-880-00 | CERAMIC 47PF | 5% 50V | C212 | 1-101-004-00 | CERAMIC 0.01MF | 50V |
| C118 | 1-101-884-00 | CERAMIC 56PF | 5% 50V | C213 | 1-161-059-00 | CERAMIC 0.047MF | 10% 25V |
| C119 | 1-102-976-00 | CERAMIC 180PF | 5% 50V | C214 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C120 | 1-102-976-00 | CERAMIC 180PF | 5% 50V | C215 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C121 | 1-108-622-91 | MYLAR 0.0047MF | 10% 100V | C216 | 1-102-525-00 | CERAMIC 68PF | 5% 50V |
| C122 | 1-101-004-00 | CERAMIC 0.01MF | 50V | C217 | 1-123-586-00 | ELECT 0.1MF | 20% 50V |
| C123 | 1-123-356-00 | ELECT 10MF | 20% 16V | C218 | 1-123-586-00 | ELECT 0.1MF | 20% 50V |
| C124 | 1-123-356-00 | ELECT 10MF | 20% 50V | C219 | 1-102-634-11 | CERAMIC 8PF | 0.5PF 50V |
| C125 | 1-123-380-00 | ELECT 1MF | 20% 50V | C220 | 1-102-637-00 | CERAMIC 12PF | 5% 50V |
| C126 | 1-123-380-00 | ELECT 1MF | 20% 50V | C221 | 1-161-013-00 | CERAMIC 0.01MF | 10% 25V |
| C127 | 1-123-380-00 | ELECT 1MF | 20% 50V | C222 | 1-123-379-00 | ELECT 0.47MF | 20% 50V |
| C128 | 1-123-380-00 | ELECT 1MF | 20% 50V | C223 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| C129 | 1-123-333-00 | ELECT 100MF | 20% 16V | C226 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C130 | 1-124-555-00 | ELECT 1000MF | 20% 16V | C228 | 1-123-330-00 | ELECT 22MF | 20% 16V |
| C131 | 1-123-318-00 | ELECT 33MF | 20% 16V | C231 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C132 | 1-101-003-00 | CERAMIC 0.0047MF | 50V | C232 | 1-102-959-00 | CERAMIC 22PF | 5% 50V |
| C133 | 1-101-003-00 | CERAMIC 0.0047MF | 50V | C233 | 1-102-959-00 | CERAMIC 22PF | 5% 50V |
| C134 | 1-123-333-00 | ELECT 100MF | 20% 16V | C234 | 1-123-379-00 | ELECT 0.47MF | 20% 50V |
| C135 | 1-101-003-00 | CERAMIC 0.0047MF | 50V | C235 | 1-123-379-00 | ELECT 0.47MF | 20% 50V |
| C137 | 1-123-356-00 | ELECT 10MF | 20% 16V | C236 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C138 | 1-123-356-00 | ELECT 10MF | 20% 16V | C237 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V |
| C139 | 1-123-356-00 | ELECT 10MF | 20% 16V | C238 | 1-123-381-00 | ELECT 2.2MF | 20% 50V |
| C140 | 1-101-001-00 | CERAMIC 0.001MF | 50V | C239 | 1-102-752-91 | CERAMIC 30PF | 5% 50V |
| C141 | 1-101-002-00 | CERAMIC 0.0022MF | 50V | C240 | 1-124-005-11 | ELECT 4.7MF | 20% 50V |
| C142 | 1-106-190-00 | MYLAR 0.0056MF | 10% 100V | C241 | 1-102-973-00 | CERAMIC 100PF | 5% 50V |
| C143 | 1-123-309-00 | ELECT 330MF | 20% 10V | C243 | 1-102-816-00 | CERAMIC 120PF | 5% 50V |
| C144 | 1-101-004-00 | CERAMIC 0.01MF | 50V | C244 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C145 | 1-101-004-00 | CERAMIC 0.01MF | 50V | C245 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C146 | 1-123-333-00 | ELECT 100MF | 20% 16V | C246 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C147 | 1-101-001-00 | CERAMIC 0.001MF | 50V | C247 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C149 | 1-101-004-00 | CERAMIC 0.01MF | 50V | C248 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V |
| C150 | 1-101-004-00 | CERAMIC 0.01MF | 50V | C249 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| C151 | 1-119-135-00 | ELECT 220MF | 16V | C250 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| C152 | 1-123-356-00 | ELECT 10MF | 20% 16V | C251 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| C153 | 1-123-333-00 | ELECT 100MF | 20% 16V | C301 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| C154 | 1-123-356-00 | ELECT 10MF | 20% 16V | C302 | 1-102-965-00 | CERAMIC 39PF | 5% 50V |
| | | | | C303 | 1-101-884-00 | CERAMIC 56PF | 5% 50V |

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-------------------|--------------|-----------------------|--------|-----------------|--------------|-----------------------|--------|
| <u>COIL</u> | | | | Q123 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L101 | 1-407-717-00 | MICRO INDUCTOR 1MMH | | Q124 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L102 | 1-404-538-11 | COIL | | Q125 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| L103 | 1-408-431-31 | MICRO INDUCTOR 1.2UH | | Q126 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L104 | 1-408-436-31 | MICRO INDUCTOR 3.3UH | | Q127 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L105 | 1-408-436-31 | MICRO INDUCTOR 3.3UH | | Q128 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L107 | 1-410-016-11 | MICRO INDUCTOR 3.9UH | | Q201 | 8-729-266-93 | TRANSISTOR 2SC2669 | |
| L108 | 1-410-016-11 | MICRO INDUCTOR 3.9UH | | Q202 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| L109 | 1-410-016-11 | MICRO INDUCTOR 3.9UH | | Q204 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L110 | 1-408-462-31 | MICRO INDUCTOR 470UH | | Q205 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| L111 | 1-408-450-31 | MICRO INDUCTOR 47UH | | Q206 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L112 | 1-408-454-31 | MICRO INDUCTOR 100UH | | Q207 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L113 | 1-408-431-31 | MICRO INDUCTOR 1.2UH | | Q208 | 8-729-288-02 | TRANSISTOR 2SD880 | |
| L114 | 1-408-430-31 | MICRO INDUCTOR 1UH | | Q209 | 8-729-201-78 | TRANSISTOR 2SD1406 | |
| L201 | 1-408-441-31 | MICRO INDUCTOR 8.2UH | | Q251 | 8-729-288-02 | TRANSISTOR 2SD880 | |
| L202 | 1-408-709-00 | MICRO INDUCTOR 0.68UH | | Q301 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L203 | 1-410-073-11 | MICRO INDUCTOR 0.22UH | | Q302 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L204 | 1-408-441-31 | MICRO INDUCTOR 8.2UH | | Q303 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L205 | 1-408-445-31 | MICRO INDUCTOR 18UH | | Q304 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L206 | 1-408-411-00 | MICRO INDUCTOR 15UH | | Q305 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L207 | 1-408-402-00 | MICRO INDUCTOR 2.7UH | | Q306 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L208 | 1-408-409-00 | MICRO INDUCTOR 10UH | | Q308 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L301 | 1-408-450-31 | MICRO INDUCTOR 47UH | | Q309 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L302 | 1-408-449-31 | MICRO INDUCTOR 39UH | | Q310 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L303 | 1-404-540-11 | COIL | | Q311 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L304 | 1-408-411-00 | MICRO INDUCTOR 15UH | | Q313 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| L305 | 1-408-431-31 | MICRO INDUCTOR 1.2UH | | Q314 | 8-729-115-30 | TRANSISTOR 2SK105A-30 | |
| L306 | 1-408-431-31 | MICRO INDUCTOR 1.2UH | | Q394 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L307 | 1-408-431-31 | MICRO INDUCTOR 1.2UH | | Q403 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| L308 | 1-408-163-00 | MICRO INDUCTOR 5.6MMH | | Q404 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L309 | 1-408-453-31 | MICRO INDUCTOR 82UH | | Q405 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L310 | 1-408-409-00 | MICRO INDUCTOR 10UH | | Q406 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L311 | 1-408-409-00 | MICRO INDUCTOR 10UH | | Q408 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| L401 | 1-408-454-31 | MICRO INDUCTOR 100UH | | Q411 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| <u>TRANSISTOR</u> | | | | Q412 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q101 | 8-729-117-54 | TRANSISTOR 2SA1175 | | Q413 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q102 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q415 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q103 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q416 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q104 | 8-729-117-54 | TRANSISTOR 2SA1175 | | Q417 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q105 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q418 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| Q106 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q419 | 8-729-177-43 | TRANSISTOR 2SD774 | |
| Q107 | 8-729-117-54 | TRANSISTOR 2SA1175 | | Q420 | 8-729-177-43 | TRANSISTOR 2SD774 | |
| Q108 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q421 | 8-729-177-43 | TRANSISTOR 2SD774 | |
| Q109 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q422 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q110 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q423 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q111 | 8-729-178-54 | TRANSISTOR 2SC2785 | | Q426 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q113 | 8-729-117-54 | TRANSISTOR 2SA1175 | | Q430 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| Q114 | 8-729-117-54 | TRANSISTOR 2SA1175 | | <u>RESISTOR</u> | | | |
| Q115 | 8-729-117-54 | TRANSISTOR 2SA1175 | | R14 | 1-247-135-00 | CARBON 1.5K 5% 1/4W | |
| Q116 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R15 | 1-249-425-11 | CARBON 4.7K 5% 1/6W | |
| Q118 | 8-729-178-54 | TRANSISTOR 2SC2785 | | R16 | 1-247-725-11 | CARBON 10K 5% 1/4W | |
| | | | | R20 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| R21 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R144 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R22 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R145 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R23 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R146 | 1-247-718-11 | CARBON | 2.7K 5% 1/4W |
| R25 | 1-247-713-11 | CARBON | 1K 5% 1/4W | R147 | 1-247-718-11 | CARBON | 2.7K 5% 1/4W |
| R26 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R148 | 1-247-718-11 | CARBON | 2.7K 5% 1/4W |
| R27 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R149 | 1-247-719-11 | CARBON | 3.3K 5% 1/4W |
| R28 | 1-247-713-11 | CARBON | 1K 5% 1/4W | R150 | 1-247-719-11 | CARBON | 3.3K 5% 1/4W |
| R001 | 1-247-711-11 | CARBON | 680 5% 1/4W | R151 | 1-247-704-11 | CARBON | 220 5% 1/4W |
| R002 | 1-247-705-11 | CARBON | 270 5% 1/4W | R152 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R003 | 1-247-705-11 | CARBON | 270 5% 1/4W | R153 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R004 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W | R154 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R005 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W | R155 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R006 | 1-247-163-00 | CARBON | 22K 5% 1/4W | R156 | 1-247-887-00 | CARBON | 220K 5% 1/6W |
| R007 | 1-247-719-11 | CARBON | 3.3K 5% 1/4W | R157 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R008 | 1-247-719-11 | CARBON | 3.3K 5% 1/4W | R158 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R009 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W | R159 | 1-247-889-00 | CARBON | 270K 5% 1/6W |
| R010 | 1-247-719-11 | CARBON | 3.3K 5% 1/4W | R160 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R012 | 1-247-704-11 | CARBON | 220 5% 1/4W | R161 | 1-247-713-11 | CARBON | 1K 5% 1/4W |
| R106 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | R162 | 1-247-713-11 | CARBON | 1K 5% 1/4W |
| R107 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R163 | 1-247-713-11 | CARBON | 1K 5% 1/4W |
| R108 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R164 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R109 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R165 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R110 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R166 | 1-247-076-00 | CARBON | 2.7 5% 1/4W |
| R111 | 1-247-823-00 | CARBON | 470 5% 1/6W | R167 | 1-206-696-00 | METAL OXIDE | 22K 5% 2W F |
| R112 | 1-247-885-00 | CARBON | 180K 5% 1/6W | R168 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W |
| R113 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R169 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R114 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R170 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R115 | 1-247-819-00 | CARBON | 330 5% 1/6W | R171 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R118 | 1-247-713-11 | CARBON | 1K 5% 1/4W | R174 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R119 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R175 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R120 | 1-249-437-11 | CARBON | 47K 5% 1/6W | R176 | 1-247-891-00 | CARBON | 330K 5% 1/6W |
| R121 | 1-249-437-11 | CARBON | 47K 5% 1/6W | R177 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R122 | 1-247-163-00 | CARBON | 22K 5% 1/4W | R178 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W |
| R123 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R179 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W |
| R124 | 1-247-849-00 | CARBON | 5.6K 5% 1/6W | R180 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R125 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R181 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R126 | 1-247-851-00 | CARBON | 6.8K 5% 1/6W | R182 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R127 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | R183 | 1-249-440-11 | CARBON | 82K 5% 1/6W |
| R128 | 1-247-857-00 | CARBON | 12K 5% 1/6W | R185 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R129 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R186 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R130 | 1-247-167-00 | CARBON | 33K 5% 1/4W | R187 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R131 | 1-247-887-00 | CARBON | 220K 5% 1/6W | R188 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R132 | 1-247-153-00 | CARBON | 8.2K 5% 1/4W | R189 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R133 | 1-247-873-00 | CARBON | 56K 5% 1/6W | R190 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R134 | 1-247-895-00 | CARBON | 470K 5% 1/6W | R191 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W |
| R135 | 1-247-895-00 | CARBON | 470K 5% 1/6W | R192 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R136 | 1-247-889-00 | CARBON | 270K 5% 1/6W | R193 | 1-244-877-51 | CARBON | 1.5K 5% 1/2W |
| R137 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R194 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R138 | 1-247-125-00 | CARBON | 560 5% 1/4W | R196 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R139 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R197 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R140 | 1-247-717-11 | CARBON | 2.2K 5% 1/4W | R198 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R142 | 1-247-700-11 | CARBON | 100 5% 1/4W | R199 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R143 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R201 | 1-247-837-00 | CARBON | 1.8K 5% 1/6W |

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| R202 | 1-247-857-00 | CARBON | 12K 5% 1/6W | R316 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W |
| R203 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R317 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R204 | 1-215-457-00 | METAL | 33K 1% 1/6W | R318 | 1-249-422-11 | CARBON | 2.7K 5% 1/6W |
| R205 | 1-215-457-00 | METAL | 33K 1% 1/6W | R319 | 1-249-422-11 | CARBON | 2.7K 5% 1/6W |
| R206 | 1-249-433-11 | CARBON | 22K 5% 1/6W | R320 | 1-249-422-11 | CARBON | 2.7K 5% 1/6W |
| R208 | 1-247-883-00 | CARBON | 150K 5% 1/6W | R321 | 1-247-899-00 | CARBON | 680K 5% 1/6W |
| R209 | 1-247-883-00 | CARBON | 150K 5% 1/6W | R322 | 1-249-434-11 | CARBON | 27K 5% 1/6W |
| R211 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R323 | 1-247-145-00 | CARBON | 3.9K 5% 1/4W |
| R215 | 1-247-883-00 | CARBON | 150K 5% 1/6W | R324 | 1-247-706-11 | CARBON | 330 5% 1/4W |
| R216 | 1-247-815-00 | CARBON | 220 5% 1/6W | R325 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R218 | 1-247-845-00 | CARBON | 3.9K 5% 1/6W | R326 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W |
| R219 | 1-247-817-00 | CARBON | 270 5% 1/6W | R327 | 1-247-845-00 | CARBON | 3.9K 5% 1/6W |
| R220 | 1-247-801-00 | CARBON | 56 5% 1/6W | R328 | 1-247-829-00 | CARBON | 820 5% 1/6W |
| R221 | 1-247-822-00 | CARBON | 430 5% 1/6W | R329 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R223 | 1-247-821-00 | CARBON | 390 5% 1/6W | R331 | 1-249-405-11 | CARBON | 100 5% 1/6W |
| R224 | 1-247-830-00 | CARBON | 910 5% 1/6W | R332 | 1-247-821-00 | CARBON | 390 5% 1/6W |
| R225 | 1-249-415-11 | CARBON | 680 5% 1/6W | R333 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R226 | 1-249-405-11 | CARBON | 100 5% 1/6W | R334 | 1-247-829-00 | CARBON | 820 5% 1/6W |
| R227 | 1-249-415-11 | CARBON | 680 5% 1/6W | R335 | 1-249-417-11 | CARBON | 1K 5% 1/6W |
| R228 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R336 | 1-247-897-00 | CARBON | 560K 5% 1/6W |
| R229 | 1-247-803-00 | CARBON | 68 5% 1/6W | R337 | 1-247-895-00 | CARBON | 470K 5% 1/6W |
| R230 | 1-247-843-00 | CARBON | 3.3K 5% 1/6W | R339 | 1-247-819-00 | CARBON | 330 5% 1/6W |
| R231 | 1-247-846-00 | CARBON | 4.3K 5% 1/6W | R340 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R232 | 1-247-851-00 | CARBON | 6.8K 5% 1/6W | R341 | 1-247-857-00 | CARBON | 12K 5% 1/6W |
| R234 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | R342 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R235 | 1-247-819-00 | CARBON | 330 5% 1/6W | R343 | 1-247-696-11 | CARBON | 47 5% 1/4W |
| R236 | 1-247-700-11 | CARBON | 100 5% 1/4W | R345 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R237 | 1-247-795-00 | CARBON | 33 5% 1/6W | R346 | 1-247-704-11 | CARBON | 220 5% 1/4W |
| R238 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | R348 | 1-247-815-00 | CARBON | 220 5% 1/6W |
| R239 | 1-247-819-00 | CARBON | 330 5% 1/6W | R349 | 1-249-437-11 | CARBON | 47K 5% 1/6W |
| R241 | 1-212-367-00 | METAL OXIDE | 3.9 5% 1W F | R350 | 1-247-815-00 | CARBON | 220 5% 1/6W |
| R242 | 1-206-495-00 | METAL OXIDE | 2.2 5% 3W F | R351 | 1-247-829-00 | CARBON | 820 5% 1/6W |
| R243 | 1-247-821-00 | CARBON | 390 5% 1/6W | R352 | 1-247-725-11 | CARBON | 10K 5% 1/4W |
| R244 | 1-247-704-11 | CARBON | 220 5% 1/4W | R353 | 1-249-433-11 | CARBON | 22K 5% 1/6W |
| R245 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R354 | 1-246-537-00 | CARBON | 470K 5% 1/4W |
| R250 | 1-206-453-00 | METAL OXIDE | 3.9 5% 2W F | R356 | 1-246-517-00 | CARBON | 68K 5% 1/4W |
| R251 | 1-247-706-11 | CARBON | 330 5% 1/4W | R357 | 1-247-903-00 | CARBON | 1M 5% 1/6W |
| R300 | 1-249-405-11 | CARBON | 100 5% 1/6W | R359 | 1-249-415-11 | CARBON | 680 5% 1/6W |
| R301 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R360 | 1-249-415-11 | CARBON | 680 5% 1/6W |
| R302 | 1-249-434-11 | CARBON | 27K 5% 1/6W | R361 | 1-247-823-00 | CARBON | 470 5% 1/6W |
| R303 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R362 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W |
| R304 | 1-247-823-00 | CARBON | 470 5% 1/6W | R363 | 1-247-819-00 | CARBON | 330 5% 1/6W |
| R305 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R364 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W |
| R306 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | R365 | 1-247-837-00 | CARBON | 1.8K 5% 1/6W |
| R307 | 1-249-415-11 | CARBON | 680 5% 1/6W | R366 | 1-249-422-11 | CARBON | 2.7K 5% 1/6W |
| R308 | 1-249-415-11 | CARBON | 680 5% 1/6W | R367 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W |
| R309 | 1-249-415-11 | CARBON | 680 5% 1/6W | R377 | 1-247-823-00 | CARBON | 470 5% 1/6W |
| R310 | 1-249-415-11 | CARBON | 680 5% 1/6W | R380 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R311 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R381 | 1-249-441-11 | CARBON | 100K 5% 1/6W |
| R312 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R382 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R313 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | R390 | 1-247-903-00 | CARBON | 1M 5% 1/6W |
| R314 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | R401 | 1-247-704-11 | CARBON | 220 5% 1/4W |
| R315 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | R402 | 1-247-704-11 | CARBON | 220 5% 1/4W |

CR

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

CR

CG

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-------------------|---------------|----------------------------|--------------|-------------------|------------------|----------------------------|---------------------|
| <u>CAPACITOR</u> | | | | <u>CAPACITOR</u> | | | |
| C702 | 1-123-028-00 | ELECT | 2.2MF | 350V | *1-615-624-11 | CG BOARD | ***** |
| C703 | 1-102-050-00 | CERAMIC | 0.01MF | 500V | 1-526-812-11 | SOCKET, CRT | |
| C704 | 1-102-155-00 | CERAMIC | 330PF | 20% 2KV | 1-556-880-51 | LEAD ASSY, HIGH-VOLTAGE | |
| C705 | 1-102-155-00 | CERAMIC | 330PF | 20% 2KV | *4-026-251-00 | SPACER, INSULATING | |
| C706 | 1-102-155-00 | CERAMIC | 330PF | 20% 2KV | <u>CAPACITOR</u> | | |
| C707 | 1-102-267-00 | CERAMIC | 0.0068MF | 500V | C722 | 1-123-028-00 | ELECT 2.2MF 350V |
| C708 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% 50V | C723 | 1-102-050-00 | CERAMIC 0.01MF 500V |
| <u>CONNECTOR</u> | | | | C724 | 1-102-155-00 | CERAMIC 330PF 20% 2KV | |
| CR1 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | | C725 | 1-102-155-00 | CERAMIC 330PF 20% 2KV | |
| CR2 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | C726 | 1-102-155-00 | CERAMIC 330PF 20% 2KV | |
| CR3 | *1-508-786-00 | 2P PLUG (M) | | C727 | 1-102-267-00 | CERAMIC 0.0068MF 500V | |
| CR4 | *1-508-784-00 | 1P PLUG | | C728 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| CR5 | *1-508-784-00 | 1P PLUG | | <u>CONNECTOR</u> | | | |
| CR6 | *1-508-784-00 | 1P PLUG | | CG1 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | |
| <u>DIODE</u> | | | | CG2 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| D701 | 8-719-911-19 | DIODE 1SS119 | | CG3 | *1-508-786-00 | 2P PLUG (M) | |
| <u>COIL</u> | | | | CG4 | *1-508-784-00 | 1P PLUG | |
| L701 | 1-407-701-00 | MICRO INDUCTOR 47UH | | CG5 | *1-508-784-00 | 1P PLUG | |
| L702 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | | CG6 | *1-508-784-00 | 1P PLUG | |
| L703 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | | <u>DIODE</u> | | | |
| L704 | 1-407-694-00 | MICRO INDUCTOR 12UH | | D721 | 8-719-911-19 | DIODE 1SS119 | |
| <u>NEON LAMP</u> | | | | <u>COIL</u> | | | |
| NL701 | 1-519-013-13 | DISCHARGE TUBE | | L721 | 1-407-701-00 | MICRO INDUCTOR 47UH | |
| <u>TRANSISTOR</u> | | | | L722 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | |
| Q701 | 8-729-326-11 | TRANSISTOR 2SC2611 | | L723 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | |
| <u>RESISTOR</u> | | | | L724 | 1-407-694-00 | MICRO INDUCTOR 12UH | |
| R701 | 1-247-700-11 | CARBON | 100 5% 1/4W | <u>NEON LAMP</u> | | | |
| R702 | 1-216-487-11 | METAL OXIDE | 12K 5% 3W F | NL721 | 1-519-013-13 | DISCHARGE TUBE | |
| R703 | 1-216-487-11 | METAL OXIDE | 12K 5% 3W F | <u>TRANSISTOR</u> | | | |
| R704 | 1-247-700-11 | CARBON | 100 5% 1/4W | Q721 | 8-729-326-11 | TRANSISTOR 2SC2611 | |
| R705 | 1-202-836-00 | SOLID | 56K 1/2W | <u>RESISTOR</u> | | | |
| R706 | 1-202-557-00 | SOLID | 220 5% 1/2W | R721 | 1-247-700-11 | CARBON | 100 5% 1/4W |
| R707 | 1-202-823-51 | SOLID | 2.7K 1/2W | R722 | 1-216-487-11 | METAL OXIDE | 12K 5% 3W F |
| R708 | 1-202-847-00 | SOLID | 560K 1/2W | R723 | 1-216-487-11 | METAL OXIDE | 12K 5% 3W F |
| R709 | 1-202-842-51 | SOLID | 220K 1/2W | R724 | 1-247-700-11 | CARBON | 100 5% 1/4W |
| R710 | 1-202-844-00 | SOLID | 330K 1/2W | R725 | 1-202-836-00 | SOLID | 56K 1/2W |
| R711 | 1-202-833-11 | SOLID | 18K 1/2W | R726 | 1-202-557-00 | SOLID | 220 5% 1/2W |
| R712 | 1-202-557-00 | SOLID | 220 10% 1/2W | R727 | 1-202-823-51 | SOLID | 2.7K 1/2W |
| <u>SPARK GAP</u> | | | | R728 | 1-202-847-00 | SOLID | 560K 1/2W |
| SG701 | 1-519-063-XX | DISCHARGING GAP | | R729 | 1-202-842-51 | SOLID | 220K 1/2W |
| | | | | R730 | 1-202-844-00 | SOLID | 330K 1/2W |
| | | | | R731 | 1-202-833-11 | SOLID | 18K 1/2W |
| | | | | R732 | 1-202-557-00 | SOLID | 220 10% 1/2W |

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CB

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|--------------------------------------|---------------|----------------------------|---------|---------------------------------|--------------|-----------------|----------|
| <u>SPARK GAP</u> | | | | R748 | 1-202-847-00 | SOLID 560K | 1/2W |
| SG721 | 1-519-063-XX | DISCHARGING GAP | | R749 | 1-202-842-51 | SOLID 220K | 1/2W |
| ***** | | | | R750 | 1-202-844-00 | SOLID 330K | 1/2W |
| | | | | R751 | 1-202-833-11 | SOLID 18K | 1/2W |
| | | | | R752 | 1-202-557-00 | SOLID 220 10% | 1/2W |
| | | | | <u>SPARK GAP</u> | | | |
| *1-615-625-11 CB BOARD | | | | SG741 | 1-519-063-XX | DISCHARGING GAP | |
| ***** | | | | ***** | | | |
| 1-526-812-11 SOCKET, CRT | | | | | | | |
| 1-556-880-51 LEAD ASSY, HIGH-VOLTAGE | | | | | | | |
| *4-026-251-00 SPACER, INSULATING | | | | | | | |
| <u>CAPACITOR</u> | | | | | | | |
| C742 | 1-123-028-00 | ELECT 2.2MF | 350V | *A-1340-804-A D BOARD, COMPLETE | | | |
| C743 | 1-102-050-00 | CERAMIC 0.01MF | 500V | (Serial No.2,000,001 and later) | | | |
| C744 | 1-102-155-00 | CERAMIC 330PF | 20% 2KV | ***** | | | |
| C745 | 1-102-155-00 | CERAMIC 330PF | 20% 2KV | *A-1340-844-A D BOARD, COMPLETE | | | |
| C746 | 1-102-155-00 | CERAMIC 330PF | 20% 2KV | (Serial No.7,000,001 and later) | | | |
| | | | | ***** | | | |
| C747 | 1-102-267-00 | CERAMIC 0.0068MF | 500V | *2-261-207-00 HEAT SINK, AF OUT | | | |
| C748 | 1-102-121-00 | CERAMIC 0.0022MF | 10% 50V | *4-348-704-00 HEAT SINK (A) | | | |
| | | | | <u>CAPACITOR</u> | | | |
| <u>CONNECTOR</u> | | | | C6001 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| CB1 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | | C6002 | 1-123-318-00 | ELECT 33MF | 20% 16V |
| CB2 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | C6004 | 1-123-332-00 | ELECT 47MF | 20% 16V |
| CB3 | *1-508-786-00 | 2P PLUG (M) | | C6007 | 1-106-172-00 | MYLAR 0.001MF | 5% 50V |
| CB4 | *1-508-784-00 | 1P PLUG | | C6008 | 1-123-336-00 | ELECT 470MF | 20% 25V |
| CB5 | *1-508-784-00 | 1P PLUG | | | | | |
| CB6 | *1-508-784-00 | 1P PLUG | | C6009 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C6010 | 1-108-587-00 | MYLAR 0.022MF | 5% 50V |
| | | | | C6011 | 1-123-336-00 | ELECT 470MF | 20% 25V |
| | | | | C6012 | 1-108-794-91 | MYLAR 0.0015MF | 5% 50V |
| | | | | C6013 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| D741 | 8-719-911-19 | DIODE 1SS119 | | C6014 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| <u>COIL</u> | | | | C6015 | 1-123-321-00 | ELECT 220MF | 20% 16V |
| L741 | 1-407-701-00 | MICRO INDUCTOR 47UH | | C6017 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| L742 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | | C6018 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| L743 | 1-407-364-00 | COIL, SPOOK CHOKE 3.3UH | | C6019 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| L744 | 1-407-694-00 | MICRO INDUCTOR 12UH | | | | | |
| <u>NEON LAMP</u> | | | | C6020 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| NL741 | 1-519-013-13 | DISCHARGE TUBE | | C6021 | 1-123-333-00 | ELECT 100MF | 20% 16V |
| | | | | C6022 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C6023 | 1-123-356-00 | ELECT 10MF | 20% 25V |
| | | | | C6024 | 1-123-380-00 | ELECT 1MF | 20% 50V |
| | | | | C6025 | 1-108-812-91 | MYLAR 0.047MF | 5% 50V |
| | | | | C6026 | 1-108-794-91 | MYLAR 0.0015MF | 5% 50V |
| | | | | C6028 | 1-123-356-00 | ELECT 10MF | 20% 25V |
| Q741 | 8-729-326-11 | TRANSISTOR 2SC2611 | | C6029 | 1-123-356-00 | ELECT 10MF | 20% 16V |
| | | | | C6031 | 1-123-333-00 | ELECT 100MF | 20% 25V |
| <u>RESISTOR</u> | | | | C6032 | 1-123-332-00 | ELECT 47MF | 20% 25V |
| R741 | 1-247-700-11 | CARBON 100 5% 1/4W | | C6033 | 1-108-614-91 | MYLAR 0.001MF | 10% 100V |
| R742 | 1-216-487-11 | METAL OXIDE 12K 5% 3W | F | C6034 | 1-123-333-00 | ELECT 100MF | 20% 25V |
| R743 | 1-216-487-11 | METAL OXIDE 12K 5% 3W | F | C6035 | 1-123-332-00 | ELECT 47MF | 20% 25V |
| R744 | 1-247-700-11 | CARBON 100 5% 1/4W | | C6036 | 1-108-614-91 | MYLAR 0.001MF | 10% 100V |
| R745 | 1-202-836-00 | SOLID 56K 1/2W | | C6037 | 1-123-333-00 | ELECT 100MF | 20% 25V |
| R746 | 1-202-557-00 | SOLID 220 5% 1/2W | | C6038 | 1-123-332-00 | ELECT 47MF | 20% 25V |
| R747 | 1-202-823-51 | SOLID 2.7K 1/2W | | C6039 | 1-108-614-91 | MYLAR 0.001MF | 10% 100V |

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|------------|---------------|-------------------------|------------------|---------|--------------|----------------|--------|
| C6040 | 1-123-333-00 | ELECT | 100MF 20% 25V | D6002 | 8-719-931-05 | DIODE EQB01-05 | |
| C6041 | 1-123-332-00 | ELECT | 47MF 20% 25V | D6003 | 8-719-911-19 | DIODE 1SS119 | |
| C6042 | 1-108-614-91 | MYLAR | 0.001MF 10% 100V | D6004 | 8-719-911-19 | DIODE 1SS119 | |
| C6043 | 1-102-947-00 | CERAMIC | 10PF 5% 50V | D6005 | 8-719-911-19 | DIODE 1SS119 | |
| C6044 | 1-102-824-21 | CERAMIC | 470PF 5% 50V | D6006 | 8-719-911-19 | DIODE 1SS119 | |
| C6045 | 1-102-824-21 | CERAMIC | 470PF 5% 50V | D6301 | 8-719-911-19 | DIODE 1SS119 | |
| C6046 | 1-102-824-21 | CERAMIC | 470PF 5% 50V | | | | |
| C6047 | 1-102-824-21 | CERAMIC | 470PF 5% 50V | | | | |
| C6048 | 1-102-824-21 | CERAMIC | 470PF 5% 50V | | | | |
| C6050 | 1-123-356-00 | ELECT | 10MF 20% 25V | | | | |
| C6051 | 1-123-318-00 | ELECT | 33MF 20% 16V | | | | |
| C6052 | 1-102-973-00 | CERAMIC | 100PF 5% 50V | | | | |
| C6054 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6058 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6069 | 1-123-356-00 | ELECT | 10MF 20% 25V | | | | |
| C6201 | 1-123-356-00 | ELECT | 10MF 20% 25V | | | | |
| C6202 | 1-123-356-00 | ELECT | 10MF 20% 25V | | | | |
| C6210 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6211 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6212 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6213 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6214 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6215 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6216 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6217 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6218 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6219 | 1-123-356-00 | ELECT | 10MF 20% 16V | | | | |
| C6301 | 1-108-581-00 | MYLAR | 0.012MF 5% 50V | | | | |
| C6302 | 1-108-794-91 | MYLAR | 0.0015MF 5% 50V | | | | |
| C6303 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6304 | 1-123-332-00 | ELECT | 47MF 20% 16V | | | | |
| C6305 | 1-123-369-00 | ELECT | 4.7MF 20% 50V | | | | |
| C6306 | 1-123-323-00 | ELECT | 470MF 20% 16V | | | | |
| MICRO FUSE | | | | | | | |
| CP6001A | 1-532-775-21 | FUSE, MICRO (SECONDARY) | 800mA/125V | | | | |
| CP6002A | 1-532-774-21 | FUSE, MICRO (SECONDARY) | 630mA/125V | | | | |
| CP6003A | 1-532-775-21 | FUSE, MICRO (SECONDARY) | 800mA/125V | | | | |
| CP6004A | 1-532-774-21 | FUSE, MICRO (SECONDARY) | 630mA/125V | | | | |
| CP6005A | 1-532-775-21 | FUSE, MICRO (SECONDARY) | 800mA/125V | | | | |
| CP6006A | 1-532-775-21 | FUSE, MICRO (SECONDARY) | 800mA/125V | | | | |
| CONNECTOR | | | | | | | |
| D1 | *1-564-444-11 | PLUG, CONNECTOR (2.5MM) | 8P | | | | |
| D2 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) | 4P | | | | |
| D3 | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) | 6P | | | | |
| D4 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) | 5P | | | | |
| D5 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) | 2P | | | | |
| D6 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) | 5P | | | | |
| DIODE | | | | | | | |
| D6001 | 8-719-931-05 | DIODE EQB01-05 | | | | | |

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

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| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|-------------|--------------|---------|--------------|-------------|---------------|
| R6016 | 1-215-441-00 | METAL | 6.8K 1% 1/6W | R6087 | 1-249-429-11 | CARBON | 10K 5% 1/6W |
| R6017 | 1-215-445-00 | METAL | 10K 1% 1/6W | R6088 | 1-249-440-11 | CARBON | 82K 5% 1/6W |
| R6018 | 1-215-435-00 | METAL | 3.9K 1% 1/6W | R6089 | 1-215-445-00 | METAL | 10K 1% 1/6W |
| R6019 | 1-215-419-00 | METAL | 820 1% 1/6W | R6090 | 1-215-433-00 | METAL | 3.3K 1% 1/6W |
| R6020 | 1-215-439-00 | METAL | 5.6K 1% 1/6W | R6091 | 1-215-435-00 | METAL | 3.9K 1% 1/6W |
| R6021 | 1-215-441-00 | METAL | 6.8K 1% 1/6W | R6092 | 1-215-441-00 | METAL | 6.8K 1% 1/6W |
| R6022 | 1-215-439-00 | METAL | 5.6K 1% 1/6W | R6093 | 1-215-435-00 | METAL | 3.9K 1% 1/6W |
| R6023 | 1-215-421-00 | METAL | 1K 1% 1/6W | R6094 | 1-215-425-00 | METAL | 1.5K 1% 1/6W |
| R6024 | 1-215-405-00 | METAL | 220 1% 1/6W | R6095 | 1-215-441-00 | METAL | 6.8K 1% 1/6W |
| R6025 | 1-215-425-00 | METAL | 1.5K 1% 1/6W | R6096 | 1-215-439-00 | METAL | 5.6K 1% 1/6W |
| R6026 | 1-215-425-00 | METAL | 1.5K 1% 1/6W | R6097 | 1-215-439-00 | METAL | 5.6K 1% 1/6W |
| R6027 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R6098 | 1-215-439-00 | METAL | 5.6K 1% 1/6W |
| R6028 | 1-215-421-00 | METAL | 1K 1% 1/6W | R6099 | 1-215-445-00 | METAL | 10K 1% 1/6W |
| R6029 | 1-215-439-00 | METAL | 5.6K 1% 1/6W | R6100 | 1-215-445-00 | METAL | 10K 1% 1/6W |
| R6030 | 1-215-441-00 | METAL | 6.8K 1% 1/6W | R6101 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6031 | 1-215-439-00 | METAL | 5.6K 1% 1/6W | R6102 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6032 | 1-215-421-00 | METAL | 1K 1% 1/6W | R6103 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6033 | 1-215-419-00 | METAL | 820 1% 1/6W | R6104 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6034 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6105 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R6035 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6106 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R6036 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R6107 | 1-213-130-00 | METAL OXIDE | 82 5% 1W F |
| R6037 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6108 | 1-212-360-00 | METAL OXIDE | 1 5% 1W F |
| R6038 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6109 | 1-206-447-00 | METAL OXIDE | 2.2 5% 2W F |
| R6039 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6110 | 1-246-981-00 | CARBON | 4.7 5% 1/8W F |
| R6040 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R6111 | 1-206-447-00 | METAL OXIDE | 2.2 5% 2W F |
| R6048 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6112 | 1-213-130-00 | METAL OXIDE | 82 5% 1W F |
| R6056 | 1-247-849-00 | CARBON | 5.6K 5% 1/6W | R6113 | 1-246-981-00 | CARBON | 4.7 5% 1/8W F |
| R6057 | 1-249-415-11 | CARBON | 680 5% 1/6W | R6114 | 1-212-360-00 | METAL OXIDE | 1 5% 1W F |
| R6058 | 1-249-434-11 | CARBON | 27K 5% 1/6W | R6115 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R6059 | 1-247-823-00 | CARBON | 470 5% 1/6W | R6116 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W |
| R6060 | 1-247-887-00 | CARBON | 220K 5% 1/6W | R6117 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6063 | 1-249-434-11 | CARBON | 27K 5% 1/6W | R6118 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6064 | 1-247-823-00 | CARBON | 470 5% 1/6W | R6119 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6065 | 1-247-887-00 | CARBON | 220K 5% 1/6W | R6120 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6068 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6121 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6069 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6122 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6070 | 1-215-421-00 | METAL | 1K 1% 1/6W | R6123 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6071 | 1-215-461-00 | METAL | 47K 1% 1/6W | R6124 | 1-215-373-31 | METAL | 10 1% 1/6W |
| R6072 | 1-249-435-11 | CARBON | 33K 5% 1/6W | R6125 | 1-215-373-31 | METAL | 10 1% 1/6W |
| R6073 | 1-215-445-00 | METAL | 10K 1% 1/6W | R6126 | 1-215-373-31 | METAL | 10 1% 1/6W |
| R6074 | 1-249-440-11 | CARBON | 82K 5% 1/6W | R6127 | 1-215-373-31 | METAL | 10 1% 1/6W |
| R6075 | 1-215-435-00 | METAL | 3.9K 1% 1/6W | R6128 | 1-215-429-00 | METAL | 2.2K 1% 1/6W |
| R6076 | 1-215-439-00 | METAL | 5.6K 1% 1/6W | R6129 | 1-249-405-11 | CARBON | 100 5% 1/6W |
| R6077 | 1-249-417-11 | CARBON | 1K 5% 1/6W | R6130 | 1-249-405-11 | CARBON | 100 5% 1/6W |
| R6078 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6131 | 1-247-819-00 | CARBON | 330 5% 1/6W |
| R6079 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6132 | 1-213-127-00 | METAL OXIDE | 47 5% 1W F |
| R6080 | 1-215-421-00 | METAL | 1K 1% 1/6W | R6134 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6081 | 1-215-461-00 | METAL | 47K 1% 1/6W | R6135 | 1-215-399-00 | METAL | 120 1% 1/6W |
| R6082 | 1-249-405-11 | CARBON | 100 5% 1/6W | R6136 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6083 | 1-249-405-11 | CARBON | 100 5% 1/6W | R6137 | 1-215-421-00 | METAL | 1K 1% 1/6W |
| R6084 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6138 | 1-212-360-00 | METAL OXIDE | 1 5% 1W F |
| R6085 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6139 | 1-213-130-00 | METAL OXIDE | 82 5% 1W F |
| R6086 | 1-249-429-11 | CARBON | 10K 5% 1/6W | R6140 | 1-206-447-00 | METAL OXIDE | 2.2 5% 2W F |

D

| Ref.No. | Part No. | Description | Remark | | | | Ref.No. | Part No. | Description | Remark | | | |
|---------|--------------|-------------|--------|----|------|---|-------------------|--------------|------------------|--------|----|------|--|
| R6141 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | R6316 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R6142 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | R6317 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R6143 | 1-246-981-00 | CARBON | 4.7 | 5% | 1/8W | F | R6318 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R6144 | 1-246-981-00 | CARBON | 4.7 | 5% | 1/8W | F | R6320 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R6145 | 1-206-447-00 | METAL OXIDE | 2.2 | 5% | 2W | F | R6321 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R6146 | 1-213-130-00 | METAL OXIDE | 82 | 5% | 1W | F | R6323 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R6147 | 1-212-360-00 | METAL OXIDE | 1 | 5% | 1W | F | R6324 | 1-215-421-00 | METAL | 1K | 1% | 1/6W | |
| R6148 | 1-215-421-00 | METAL | 1K | 1% | 1/6W | | VARIABLE RESISTOR | | | | | | |
| R6149 | 1-215-421-00 | METAL | 1K | 1% | 1/6W | | RV6001 | 1-230-814-11 | RES, VAR, CARBON | 10KX4 | | | |
| R6150 | 1-215-399-00 | METAL | 120 | 1% | 1/6W | | RV6002 | 1-230-814-11 | RES, VAR, CARBON | 10KX4 | | | |
| R6151 | 1-215-399-00 | METAL | 120 | 1% | 1/6W | | RV6003 | 1-230-814-11 | RES, VAR, CARBON | 10KX4 | | | |
| R6152 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | RV6004 | 1-230-814-11 | RES, VAR, CARBON | 10KX4 | | | |
| R6153 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | RV6005 | 1-228-859-00 | RES, VAR, CARBON | 10K | | | |
| R6154 | 1-215-445-00 | METAL | 10K | 1% | 1/6W | | RV6006 | 1-228-859-00 | RES, VAR, CARBON | 10K | | | |
| R6155 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W | | RV6007 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6156 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6008 | 1-230-630-11 | RES, ADJ, CARBON | 10K | | | |
| R6157 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6009 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6176 | 1-215-437-00 | METAL | 4.7K | 1% | 1/6W | | RV6010 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6201 | 1-247-899-00 | CARBON | 680K | 5% | 1/6W | | RV6011 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6202 | 1-247-891-00 | CARBON | 330K | 5% | 1/6W | | RV6012 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6203 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6013 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6204 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6014 | 1-230-630-11 | RES, ADJ, CARBON | 10K | | | |
| R6205 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6015 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6206 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6016 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6207 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6017 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6208 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6018 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6210 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | RV6019 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6211 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | | RV6020 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6212 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6021 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6213 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6022 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6214 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | RV6023 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6215 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | | RV6024 | 1-230-628-11 | RES, ADJ, CARBON | 2.2K | | | |
| R6216 | 1-215-421-00 | METAL | 1K | 1% | 1/6W | | RV6025 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6217 | 1-215-439-00 | METAL | 5.6K | 1% | 1/6W | | RV6026 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6218 | 1-215-436-00 | METAL | 4.3K | 1% | 1/6W | | RV6027 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6219 | 1-215-415-00 | METAL | 560 | 1% | 1/6W | | RV6028 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6220 | 1-215-421-00 | METAL | 1K | 1% | 1/6W | | RV6029 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6221 | 1-215-441-00 | METAL | 6.8K | 1% | 1/6W | | RV6030 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6301 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | RV6031 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6302 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | RV6032 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6303 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | RV6033 | 1-230-628-11 | RES, ADJ, CARBON | 2.2K | | | |
| R6304 | 1-215-413-00 | METAL | 470 | 1% | 1/6W | | RV6034 | 1-230-633-41 | RES, ADJ, CARBON | 47K | | | |
| R6305 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6035 | 1-230-633-41 | RES, ADJ, CARBON | 47K | | | |
| R6306 | 1-247-893-00 | CARBON | 390K | 5% | 1/6W | | RV6036 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6307 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | | RV6038 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6308 | 1-215-411-00 | METAL | 390 | 1% | 1/6W | | RV6039 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6309 | 1-215-403-00 | METAL | 180 | 1% | 1/6W | | RV6040 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6310 | 1-215-403-00 | METAL | 180 | 1% | 1/6W | | RV6041 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6311 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | RV6042 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6312 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6043 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6313 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | RV6044 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6314 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | RV6045 | 1-230-631-11 | RES, ADJ, CARBON | 22K | | | |
| R6315 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | | | | | | | |

D E

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------------|-------------------------|---------------------------------|--------|---------|--------------|----------------------|--------|
| RV6046 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5027 | 1-123-380-00 | ELECT 1MF 20% | 50V |
| RV6047 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5028 | 1-106-196-00 | MYLAR 0.01MF 10% | 100V |
| RV6048 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5029 | 1-123-379-00 | ELECT 0.47MF 20% | 50V |
| RV6049 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5030 | 1-136-173-00 | FILM 0.47MF 5% | 50V |
| RV6050 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5031 | 1-108-812-91 | MYLAR 0.047MF 5% | 50V |
| RV6051 | 1-230-631-11 | RES, ADJ, CARBON 22K | | C5032 | 1-123-929-00 | ELECT 1MF | 160V |
| SWITCH | | | | C5033 | 1-108-579-00 | MYLAR 0.01MF 5% | 50V |
| SW6002 | 1-553-716-00 | SWITCH, SLIDE | | C5034 | 1-102-820-00 | CERAMIC 330PF 5% | 50V |
| SW6101 | 1-554-330-00 | SWITCH, ROTARY | | C5035 | 1-106-208-00 | MYLAR 0.033MF 10% | 100V |
| ***** | | | | C5036 | 1-102-820-00 | CERAMIC 330PF 5% | 50V |
| *A-1345-624-A | E BOARD, COMPLETE | (Serial No.2,000,001 and later) | | C5037 | 1-106-359-00 | MYLAR 0.0047MF 10% | 200V |
| ***** | | | | C5038 | 1-136-111-00 | FILM 1MF 5% | 200V |
| *A-1345-635-A | E BOARD, COMPLETE | (Serial No.7,000,001 and later) | | C5039 | 1-136-108-00 | FILM 0.43MF 5% | 200V |
| ***** | | | | C5043 | 1-123-026-00 | ELECT 2.2MF | 160V |
| △1-453-099-11 | DC BLOCK, HIGH-VOLTAGE | | | C5045 | 1-123-356-00 | ELECT 10MF 20% | 16V |
| *1-533-146-00 | HOLDER, FUSE | | | C5052 | 1-102-121-00 | CERAMIC 0.0022MF 10% | 50V |
| *4-323-833-00 | HEAT SINK, PIN OUT | | | C5053 | 1-123-379-00 | ELECT 0.47MF 20% | 50V |
| *4-332-214-00 | REINFORCEMENT, PC BOARD | | | C5054 | 1-102-973-00 | CERAMIC 100PF 5% | 50V |
| *4-363-404-00 | HOLDER, IC | | | C5055 | 1-106-385-00 | MYLAR 0.056MF 10% | 200V |
| 4-375-412-01 | SPACER, MICA | | | C5056 | 1-121-999-00 | ELECT 10MF | 160V |
| *4-821-501-00 | HEAT SINK | | | C5057 | 1-102-244-00 | CERAMIC 220PF 10% | 500V |
| CAPACITOR | | | | C5058 | 1-136-477-11 | FILM 0.009MF 3% | 1.6KV |
| C5001 | 1-108-614-91 | MYLAR 0.001MF 10% | 100V | C5059 | 1-162-115-00 | CERAMIC 330PF 10% | 2KV |
| C5002 | 1-162-117-00 | CERAMIC 100PF 10% | 500V | C5060 | 1-106-359-00 | MYLAR 0.0047MF 10% | 200V |
| C5003 | 1-102-212-00 | CERAMIC 820PF 10% | 500V | C5061 | 1-123-024-00 | ELECT 33MF | 160V |
| C5004 | 1-102-002-00 | CERAMIC 680PF 10% | 500V | C5062 | 1-123-022-00 | ELECT 22MF | 350V |
| C5005 | 1-123-380-00 | ELECT 1MF 20% | 50V | C5063 | 1-121-999-00 | ELECT 10MF | 160V |
| C5006 | 1-108-845-00 | MYLAR 0.047MF 10% | 50V | C5064 | 1-108-684-91 | MYLAR 0.0022MF 10% | 200V |
| C5007 | 1-106-220-00 | MYLAR 0.1MF 10% | 100V | C5065 | 1-123-356-00 | ELECT 10MF 20% | 16V |
| C5008 | 1-106-192-00 | MYLAR 0.0068MF 10% | 100V | C5066 | 1-102-244-00 | CERAMIC 220PF 10% | 500V |
| C5009 | 1-136-311-11 | FILM 0.47MF 20% | 125V | C5068 | 1-108-431-00 | MYLAR 0.068MF 10% | 200V |
| C5011 | 1-108-630-91 | MYLAR 0.022MF 10% | 100V | C5069 | 1-106-220-00 | MYLAR 0.1MF 10% | 100V |
| C5012 | 1-123-356-00 | ELECT 10MF 20% | 16V | C5070 | 1-123-333-00 | ELECT 100MF 20% | 25V |
| C5013 | 1-130-868-00 | FILM 0.0056MF 5% | 50V | C5071 | 1-101-006-21 | CERAMIC 0.047MF 50V | |
| C5014 | 1-123-369-00 | ELECT 4.7MF 20% | 50V | C5072 | 1-108-431-00 | MYLAR 0.068MF 10% | 200V |
| C5015 | 1-123-381-00 | ELECT 2.2MF 20% | 50V | C5073 | 1-123-318-00 | ELECT 33MF 20% | 16V |
| C5016 | 1-123-356-00 | ELECT 10MF 20% | 16V | C5074 | 1-108-618-91 | MYLAR 0.0022MF 10% | 100V |
| C5017 | 1-124-005-11 | ELECT 4.7MF 20% | 50V | C5076 | 1-123-323-00 | ELECT 470MF 20% | 16V |
| C5018 | 1-123-333-00 | ELECT 100MF 20% | 16V | C5077 | 1-123-336-00 | ELECT 470MF 20% | 25V |
| C5019 | 1-123-369-00 | ELECT 4.7MF 20% | 25V | C5078 | 1-102-030-00 | CERAMIC 330PF 10% | 500V |
| C5020 | 1-102-820-00 | CERAMIC 330PF 5% | 50V | C5079 | 1-123-332-00 | ELECT 47MF 20% | 25V |
| C5021 | 1-106-196-00 | MYLAR 0.01MF 10% | 100V | C5080 | 1-123-332-00 | ELECT 47MF 20% | 25V |
| C5022 | 1-102-125-00 | CERAMIC 0.0047MF 10% | 50V | C5090 | 1-102-121-00 | CERAMIC 0.0022MF 10% | 50V |
| C5023 | 1-106-190-00 | MYLAR 0.0056MF 10% | 100V | C5091 | 1-123-607-00 | ELECT 0.1MF 20% | 50V |
| C5024 | 1-123-324-00 | ELECT 1000MF 20% | 16V | C5092 | 1-123-252-00 | ELECT 1MF | 160V |
| C5025 | 1-123-380-00 | ELECT 1MF 20% | 50V | C5094 | 1-123-332-00 | ELECT 47MF 20% | 16V |
| C5026 | 1-123-026-00 | ELECT 2.2MF | 160V | C5095 | 1-123-360-00 | ELECT 100MF 20% | 50V |
| | | | | C5096 | 1-123-360-00 | ELECT 100MF 20% | 50V |
| | | | | C5097 | 1-123-360-00 | ELECT 100MF 20% | 50V |
| | | | | C5098 | 1-123-363-00 | ELECT 470MF 20% | 50V |
| | | | | C5099 | 1-125-186-00 | ELECT(BLOCK) 560MF | 200V |
| | | | | C5100 | 1-125-186-00 | ELECT(BLOCK) 560MF | 200V |
| | | | | C5101 | 1-161-830-00 | CERAMIC 0.0047MF | 500V |

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

E

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|----------|--------------|-------------|-------------------|---------|--------------|---------------------|--------|
| ✖ C5119A | | CERAMIC | 2KV | | | DIODE | |
| C5120 | 1-102-157-00 | CERAMIC | 560PF 10% 500V | D5001 | 8-719-911-19 | DIODE 1SS119 | |
| C5121 | 1-108-849-00 | MYLAR | 0.1MF 10% 50V | D5002 | 8-719-101-57 | DIODE RD5.6E-L1 | |
| C5122 | 1-108-427-00 | MYLAR | 0.033MF 10% 200V | D5003 | 8-719-911-19 | DIODE 1SS119 | |
| C5123 | 1-121-999-00 | ELECT | 10MF 160V | D5005 | 8-719-926-16 | DIODE ERC26-15SA | |
| | | | | D5007 | 8-719-911-19 | DIODE 1SS119 | |
| C5124 | 1-102-030-00 | CERAMIC | 330PF 10% 500V | D5008 | 8-719-926-16 | DIODE ERC26-15SA | |
| C5125 | 1-108-427-00 | MYLAR | 0.033MF 10% 200V | D5010 | 8-719-300-76 | DIODE RH1A | |
| C5126A | 1-136-311-51 | FILM | 0.47MF 20% 125V | D5011 | 8-719-300-76 | DIODE RH1A | |
| C5127A | 1-136-311-51 | FILM | 0.47MF 20% 125V | D5015 | 8-719-200-02 | DIODE 10E2 | |
| C5128A | 1-161-743-51 | CERAMIC | 0.0047MF 400V | D5016 | 8-719-300-38 | DIODE GU-3A | |
| C5129A | 1-161-743-51 | CERAMIC | 0.0047MF 400V | | | | |
| C5130 | 1-123-333-00 | ELECT | 100MF 20% 16V | D5017 | 8-719-300-38 | DIODE GU-3A | |
| C5131 | 1-123-356-00 | ELECT | 10MF 20% 16V | D5018 | 8-719-511-20 | DIODE S1VB20 | |
| C5132 | 1-123-380-00 | ELECT | 1MF 20% 50V | D5019 | 8-719-503-06 | DIODE S3WB60Z | |
| C5133 | 1-102-973-00 | CERAMIC | 100PF 5% 50V | | 4-375-412-01 | SPACER, MICA; D5019 | |
| C5134 | 1-123-330-00 | ELECT | 22MF 20% 25V | D5020 | 8-719-911-19 | DIODE 1SS119 | |
| C5135 | 1-102-973-00 | CERAMIC | 100PF 5% 50V | | | | |
| C5136 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5021 | 8-719-911-55 | DIODE U05G | |
| C5137 | 1-108-845-00 | MYLAR | 0.047MF 10% 50V | D5022 | 8-719-911-19 | DIODE 1SS119 | |
| C5138 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5023 | 8-719-911-19 | DIODE 1SS119 | |
| | | | | D5026 | 8-719-100-35 | DIODE RD5.6E-B2 | |
| C5139 | 1-108-843-91 | MYLAR | 0.033MF 10% 50V | D5027 | 8-719-100-78 | DIODE RD18E-B3 | |
| C5140 | 1-123-330-00 | ELECT | 22MF 20% 25V | | | | |
| C5141 | 1-123-330-00 | ELECT | 22MF 20% 25V | D5028 | 8-719-911-19 | DIODE 1SS119 | |
| C5142 | 1-102-973-00 | CERAMIC | 100PF 5% 50V | D5029 | 8-719-102-72 | DIODE RD5.6E-N3 | |
| C5143 | 1-123-380-00 | ELECT | 1MF 20% 50V | D5030 | 8-719-200-02 | DIODE 10E2 | |
| | | | | D5031 | 8-719-911-19 | DIODE 1SS119 | |
| C5144 | 1-102-973-00 | CERAMIC | 100PF 5% 50V | D5032 | 8-719-102-90 | DIODE RD10E-N2 | |
| C5145 | 1-108-843-91 | MYLAR | 0.033MF 10% 50V | | | | |
| C5146 | 1-123-330-00 | ELECT | 22MF 20% 25V | D5033 | 8-719-911-19 | DIODE 1SS119 | |
| C5147 | 1-108-845-00 | MYLAR | 0.047MF 10% 50V | D5034 | 8-719-911-19 | DIODE 1SS119 | |
| C5148 | 1-108-587-00 | MYLAR | 0.022MF 5% 50V | D5035 | 8-719-100-57 | DIODE RD10E-B2 | |
| | | | | D5036 | 8-719-911-19 | DIODE 1SS119 | |
| C5150 | 1-106-359-00 | MYLAR | 0.0047MF 10% 200V | D5037 | 8-719-100-68 | DIODE RD13E-B2 | |
| C5151 | 1-123-321-00 | ELECT | 220MF 20% 16V | | | | |
| C5152 | 1-123-356-00 | ELECT | 10MF 20% 16V | D5038 | 8-719-911-19 | DIODE 1SS119 | |
| C5153 | 1-123-356-00 | ELECT | 10MF 20% 16V | D5039 | 8-719-911-19 | DIODE 1SS119 | |
| C5154 | 1-123-311-00 | ELECT | 1000MF 20% 10V | D5040 | 8-719-911-19 | DIODE 1SS119 | |
| | | | | D5041 | 8-719-911-19 | DIODE 1SS119 | |
| C5155 | 1-123-323-00 | ELECT | 470MF 20% 16V | D5042 | 8-719-911-19 | DIODE 1SS119 | |
| C5156 | 1-102-125-00 | CERAMIC | 0.0047MF 10% 50V | | | | |
| C5157 | 1-102-125-00 | CERAMIC | 0.0047MF 10% 50V | D5043 | 8-719-911-19 | DIODE 1SS119 | |
| C5158 | 1-161-743-00 | CERAMIC | 0.0047MF 400V | D5044 | 8-719-911-19 | DIODE 1SS119 | |
| C5159 | 1-161-830-00 | CERAMIC | 0.0047MF 500V | D5045 | 8-719-911-19 | DIODE 1SS119 | |
| | | | | D5046 | 8-719-100-68 | DIODE RD13E-B2 | |
| C5160 | 1-123-335-00 | ELECT | 330MF 20% 25V | D5047 | 8-719-100-68 | DIODE RD13E-B2 | |
| C5170 | 1-124-645-11 | ELECT | 10MF 20% 16V | | | | |
| C5171 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5048 | 8-719-911-19 | DIODE 1SS119 | |
| C5172 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5050 | 8-719-911-19 | DIODE 1SS119 | |
| C5173 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5051 | 8-719-911-19 | DIODE 1SS119 | |
| | | | | D5053 | 8-719-900-93 | DIODE V09C | |
| C5174 | 1-123-338-00 | ELECT | 2200MF 20% 25V | D5054 | 8-719-100-68 | DIODE RD13E-B2 | |
| C5175 | 1-123-318-00 | ELECT | 33MF 20% 16V | | | | |
| C5176 | 1-123-321-00 | ELECT | 220MF 20% 16V | D5055 | 8-719-100-68 | DIODE RD13E-B2 | |
| C5199 | 1-102-125-00 | CERAMIC | 0.0047MF 10% 50V | D5056 | 8-719-200-02 | DIODE 10E2 | |
| C5200 | 1-102-820-00 | CERAMIC | 330PF 5% 50V | D5060 | 8-719-100-87 | DIODE RD22E-B3 | |
| | | | | D5062 | 8-719-100-87 | DIODE RD22E-B3 | |
| C5300 | 1-123-380-00 | ELECT | 1MF 20% 50V | | | | |

NOTE:

- The components identified by ✖ in this parts list have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

E

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|------------------|---------------|-----------------------------|--------|-------------------|--------------|-------------------------|--------|
| <u>CONNECTOR</u> | | | | L5014 | 1-459-104-00 | COIL, DUST CORE | |
| E5001 | *1-508-765-00 | 3P PLUG (M) | | <u>NEON LAMP</u> | | | |
| E5002 | *1-508-786-00 | 2P PLUG (M) | | NL5001 | 1-519-108-XX | LAMP, NEON ASSY | |
| E5003 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | | <u>TRANSISTOR</u> | | | |
| E5004 | *1-560-127-00 | PLUG, CONNECTOR (2.5MM) 7P | | Q5001 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5005 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P | | Q5002 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5006 | *1-564-446-11 | PLUG, CONNECTOR (2.5MM) 10P | | Q5003 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5010 | *1-508-766-00 | 4P PLUG (M) | | Q5004 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5011 | *1-508-765-00 | 3P PLUG (M) | | Q5006 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5012 | *1-508-786-00 | 2P PLUG (M) | | Q5007 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5013 | *1-564-353-00 | PLUG, CONNECTOR (2.5MM) 2P | | Q5009 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5014 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | | Q5010 | 8-729-238-32 | TRANSISTOR 2SC2383 | |
| E5015 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | | Q5011 | 8-729-105-62 | TRANSISTOR 2SD560 | |
| E5016 | *1-506-347-21 | 4P PLUG | | Q5012 | 8-729-101-62 | TRANSISTOR 2SB601 | |
| E5017 | *1-564-440-11 | PLUG, CONNECTOR (2.5MM) 4P | | Q5013 | 8-729-168-82 | TRANSISTOR 2SC2688 | |
| E5018 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | | Q5014 | 8-729-800-80 | TRANSISTOR 2SD1399-CA | |
| E5019 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | | Q5017 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5021 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | | Q5020 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5022 | *1-564-444-11 | PLUG, CONNECTOR (2.5MM) 8P | | Q5021 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| E5023 | *1-564-443-11 | PLUG, CONNECTOR (2.5MM) 7P | | Q5022 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5026 | *1-564-442-11 | PLUG, CONNECTOR (2.5MM) 6P | | Q5023 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| E5027 | *1-508-765-00 | 3P PLUG (M) | | Q5024 | 8-729-201-78 | TRANSISTOR 2SD1406 | |
| E5028 | *1-506-347-21 | 4P PLUG | | Q5025 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| E5029 | *1-508-786-00 | 2P PLUG (M) | | Q5026 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5030 | *1-506-347-21 | 4P PLUG | | Q5030 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| E5031 | *1-508-786-00 | 2P PLUG (M) | | Q5031 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| E5032 | *1-506-348-XX | 3P PLUG (L) | | Q5032 | 8-729-117-54 | TRANSISTOR 2SA1175 | |
| E5033 | *1-508-784-00 | 1P PLUG | | <u>RESISTOR</u> | | | |
| <u>FUSE</u> | | | | R5001 | 1-249-417-11 | CARBON 1K 5% 1/6W | |
| F5001A | 1-532-656-11 | FUSE, GLASS TUBE 6.3A/125V | | R5002 | 1-249-417-11 | CARBON 1K 5% 1/6W | |
| F5002A | 1-532-562-11 | FUSE, GLASS TUBE 2.5A/125V | | R5003 | 1-244-889-51 | CARBON 4.7K 5% 1/2W | |
| F5003A | 1-532-562-11 | FUSE, GLASS TUBE 2.5A/125V | | R5004 | 1-249-429-11 | CARBON 10K 5% 1/6W | |
| <u>IC</u> | | | | R5005 | 1-215-901-00 | METAL OXIDE 33K 5% 2W F | |
| IC5001 | 8-759-100-60 | IC UPC1377C | | R5006 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| IC5003 | 8-759-600-02 | IC M5218L | | R5007 | 1-247-815-00 | CARBON 220 5% 1/6W | |
| IC5005 | 8-759-700-06 | IC NJM7812B | | R5008 | 1-247-819-00 | CARBON 330 5% 1/6W | |
| IC5006 | 8-759-179-12 | IC UPC7912H | | R5010 | 1-247-894-00 | CARBON 430K 5% 1/6W | |
| IC5007 | 8-759-178-12 | IC UPC78L12 | | R5012 | 1-249-433-11 | CARBON 22K 5% 1/6W | |
| IC5008 | 8-759-111-88 | IC UPC1188H | | R5013 | 1-247-859-00 | CARBON 15K 5% 1/6W | |
| IC5009 | 8-759-111-88 | IC UPC1188H | | R5014 | 1-249-417-11 | CARBON 1K 5% 1/6W | |
| <u>COIL</u> | | | | R5015 | 1-247-868-00 | CARBON 36K 5% 1/6W | |
| L5003 | 1-407-705-00 | MICRO INDUCTOR 100UH | | R5016 | 1-249-440-11 | CARBON 82K 5% 1/6W | |
| L5004 | 1-459-570-11 | HLC | | R5017 | 1-249-440-11 | CARBON 82K 5% 1/6W | |
| L5005 | 1-459-614-11 | COIL, CHOKE 90UH | | R5018 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | |
| L5007 | 1-407-696-00 | MICRO INDUCTOR 18UH | | R5019 | 1-215-447-00 | METAL 12K 1% 1/6W | |
| L5008 | 1-407-690-00 | MICRO INDUCTOR 5.6UH | | R5020 | 1-247-150-00 | CARBON 6.2K 5% 1/4W | |
| L5009 | 1-407-720-00 | CHOKE COIL | | R5021 | 1-215-437-00 | METAL 4.7K 1% 1/6W | |
| L5010 | 1-459-526-11 | COIL, CHOKE | | R5022 | 1-215-471-00 | METAL 120K 1% 1/6W | |
| L5011 | 1-459-104-00 | COIL, DUST CORE | | R5024 | 1-215-473-00 | METAL 150K 1% 1/6W | |


NOTE:


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E

| Ref.No. | Part No. | Description | | | | Remark | Ref.No. | Part No. | Description | | | | Remark |
|---------|--------------|-------------|------|-----|------|--------|---------|--------------|-------------|------|-----|------|--------|
| R5025 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W | | R5128 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R5027 | 1-215-893-11 | METAL OXIDE | 1.5K | 5% | 2W | F | R5129 | 1-247-694-11 | CARBON | 33 | 5% | 1/4W | |
| R5029 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | R5160 | 1-214-595-00 | METAL OXIDE | 100K | 5% | 1W | F |
| R5030 | 1-247-845-00 | CARBON | 3.9K | 5% | 1/6W | | R5173 | 1-215-415-00 | METAL | 560 | 1% | 1/6W | |
| R5031 | 1-247-833-00 | CARBON | 1.2K | 5% | 1/6W | | R5174 | 1-247-700-11 | CARBON | 100 | 5% | 1/4W | |
| R5033 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | | R5175 | 1-215-924-00 | METAL OXIDE | 15K | 5% | 3W | F |
| R5034 | 1-247-857-00 | CARBON | 12K | 5% | 1/6W | | R5176 | 1-216-453-00 | METAL OXIDE | 270 | 5% | 2W | F |
| R5035 | 1-215-463-00 | METAL | 56K | 1% | 1/6W | | R5177 | 1-215-445-00 | METAL | 10K | 1% | 1/6W | |
| R5036 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | R5178 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | |
| R5038 | 1-215-458-00 | METAL | 36K | 1% | 1/6W | | R5179 | 1-215-417-00 | METAL | 680 | 1% | 1/6W | |
| R5039 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | R5180 | 1-247-783-00 | CARBON | 10 | 5% | 1/6W | |
| R5046 | 1-247-853-00 | CARBON | 8.2K | 5% | 1/6W | | R5181 | 1-249-405-11 | CARBON | 100 | 5% | 1/6W | |
| R5058 | 1-215-453-00 | METAL | 22K | 1% | 1/6W | | R5182 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R5059 | 1-215-449-00 | METAL | 15K | 1% | 1/6W | | R5193 | 1-215-441-00 | METAL | 6.8K | 1% | 1/6W | |
| R5060 | 1-215-453-00 | METAL | 22K | 1% | 1/6W | | R5184 | 1-215-415-00 | METAL | 560 | 1% | 1/6W | |
| R5061 | 1-247-713-11 | CARBON | 1K | 5% | 1/4W | | R5190 | 1-216-371-00 | METAL OXIDE | 1.5 | 5% | 2W | F |
| R5062 | 1-247-887-00 | CARBON | 220K | 5% | 1/6W | | R5191A | 1-202-729-51 | SOLID | 6.8M | 10% | 1/2W | |
| R5063 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/6W | | R5192A | 1-202-723-51 | SOLID | 2.2M | 10% | 1/2W | |
| R5065 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | R5193 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R5066 | 1-206-521-00 | METAL OXIDE | 27 | 5% | 3W | F | R5194 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W | |
| R5067 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | R5195 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R5069 | 1-247-711-11 | CARBON | 680 | 5% | 1/4W | | R5196 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R5070 | 1-247-883-00 | CARBON | 150K | 5% | 1/6W | | R5197 | 1-249-432-11 | CARBON | 18K | 5% | 1/6W | |
| R5071 | 1-247-715-11 | CARBON | 1.5K | 5% | 1/4W | F | R5198 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R5073 | 1-247-851-00 | CARBON | 6.8K | 5% | 1/6W | | R5199 | 1-246-981-00 | CARBON | 4.7 | 5% | 1/8W | F |
| R5074 | 1-215-403-00 | METAL | 180 | 1% | 1/6W | | R5200 | 1-247-873-00 | CARBON | 56K | 5% | 1/6W | |
| R5086 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | R5201 | 1-249-435-11 | CARBON | 33K | 5% | 1/6W | |
| R5087 | 1-214-595-00 | METAL OXIDE | 100K | 5% | 1W | F | R5202 | 1-247-821-00 | CARBON | 390 | 5% | 1/6W | |
| R5088A | 1-205-798-11 | CEMENTED | 1.5 | 5% | 20W | | R5203 | 1-247-859-00 | CARBON | 15K | 5% | 1/6W | |
| R5089 | 1-215-415-00 | METAL | 560 | 1% | 1/6W | | R5204 | 1-249-432-11 | CARBON | 18K | 5% | 1/6W | |
| R5090 | 1-247-843-00 | CARBON | 3.3K | 5% | 1/6W | | R5205 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | |
| R5091 | 1-247-667-00 | CARBON | 5.6K | 5% | 1/4W | F | R5206 | 1-246-981-00 | CARBON | 4.7 | 5% | 1/8W | F |
| R5092 | 1-205-778-11 | CEMENTED | 4.7 | 10% | 7W | | R5209 | 1-206-692-00 | METAL OXIDE | 15K | 5% | 2W | F |
| R5093 | 1-206-439-00 | METAL OXIDE | 1 | 5% | 2W | F | R5210 | 1-215-451-00 | METAL | 18K | 1% | 1/6W | |
| R5096 | 1-215-866-11 | METAL OXIDE | 330 | 5% | 1W | F | R5211 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R5098 | 1-213-131-00 | METAL OXIDE | 100 | 5% | 1W | F | R5212 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R5100 | 1-215-435-00 | METAL | 3.9K | 1% | 1/6W | | R5214 | 1-215-876-00 | METAL OXIDE | 15K | 5% | 1W | F |
| R5111 | 1-206-459-00 | METAL OXIDE | 6.8 | 5% | 2W | F | R5215 | 1-216-371-00 | METAL OXIDE | 1.5 | 5% | 2W | F |
| R5112 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | R5216 | 1-214-773-00 | METAL | 68K | 1% | 1/4W | |
| R5113 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | R5217A | | METAL | | | 1/4W | |
| R5114 | 1-247-857-00 | CARBON | 12K | 5% | 1/6W | | R5218A | | METAL | | | 1/4W | |
| R5115 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | R5219 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R5116 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | | R5220 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R5117 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/6W | | R5221 | 1-247-831-00 | CARBON | 1K | 5% | 1/8W | F |
| R5119 | 1-247-131-00 | CARBON | 1K | 5% | 1/4W | F | R5222 | 1-249-417-11 | CARBON | 1K | 5% | 1/6W | |
| R5120 | 1-214-751-00 | METAL | 8.2K | 1% | 1/4W | | R5223 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R5121 | 1-249-453-11 | CARBON | 3.3 | 5% | 1/4W | F | R5224 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R5122 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | | R5225 | 1-249-429-11 | CARBON | 10K | 5% | 1/6W | |
| R5123 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | R5226 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | |
| R5124 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | | R5228 | 1-247-163-00 | CARBON | 22K | 5% | 1/4W | |
| R5125 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | R5229 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |
| R5126 | 1-249-441-11 | CARBON | 100K | 5% | 1/6W | | R5230 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/6W | |
| R5127 | 1-249-437-11 | CARBON | 47K | 5% | 1/6W | | R5231 | 1-249-433-11 | CARBON | 22K | 5% | 1/6W | |

NOTE:

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The components identified by shading and mark  are critical for safety. Replace only with part number specified.

E M

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-------------------|---|-------------------------------|--------|------------|---------------|----------------------------|--------|
| R5232 | 1-247-857-00 | CARBON 12K 5% 1/6W | | C1302 | 1-102-978-00 | CERAMIC 220PF 5% 50V | |
| R5233 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | C1303 | 1-101-004-00 | CERAMIC 0.01MF 50V | |
| R5236 | 1-249-405-11 | CARBON 100 5% 1/6W | | C1304 | 1-123-318-00 | ELECT 33MF 20% 16V | |
| R5237 | 1-247-891-00 | CARBON 330K 5% 1/6W | | C1305 | 1-106-196-00 | MYLAR 0.01MF 10% 100V | |
| R5238 | 1-249-405-11 | CARBON 100 5% 1/6W | | C1306 | 1-123-333-00 | ELECT 100MF 20% 16V | |
| R5239 | 1-249-437-11 | CARBON 47K 5% 1/6W | | C1307 | 1-102-822-00 | CERAMIC 390PF 5% 50V | |
| R5240 | 1-249-433-11 | CARBON 22K 5% 1/6W | | C1308 | 1-101-888-00 | CERAMIC 68PF 5% 50V | |
| R5241 | 1-249-405-11 | CARBON 100 5% 1/6W | | DIODE | | | |
| R5246 | 1-215-421-00 | METAL 1K 1% 1/6W | | D1305 | 8-719-911-19 | DIODE 1SS119 | |
| R5247 | 1-215-445-00 | METAL 10K 1% 1/6W | | D1306 | 8-719-911-19 | DIODE 1SS119 | |
| R5248 | 1-215-477-00 | METAL 220K 1% 1/6W | | D1307 | 8-719-911-19 | DIODE 1SS119 | |
| R5249 | 1-215-449-00 | METAL 15K 1% 1/6W | | D1308 | 8-719-911-19 | DIODE 1SS119 | |
| R5250 | 1-215-449-00 | METAL 15K 1% 1/6W | | D1310 | 8-719-911-19 | DIODE 1SS119 | |
| R5251 | 1-249-417-11 | CARBON 1K 5% 1/6W | | D1313 | 8-719-911-19 | DIODE 1SS119 | |
| R5252 | 1-249-405-11 | CARBON 100 5% 1/6W | | D1314 | 8-719-911-19 | DIODE 1SS119 | |
| R5260 | 1-247-715-11 | CARBON 1.5K 5% 1/4W F | | D1316 | 8-719-911-19 | DIODE 1SS119 | |
| R5261 | 1-215-421-00 | METAL 1K 1% 1/6W | | D1317 | 8-719-911-19 | DIODE 1SS119 | |
| R5262 | 1-249-405-11 | CARBON 100 5% 1/6W | | D1320 | 8-719-911-19 | DIODE 1SS119 | |
| R5263 | 1-207-463-00 | WIREWOUND 1 10% 1/2W | | D1321 | 8-719-911-19 | DIODE 1SS119 | |
| R5264 | 1-207-463-00 | WIREWOUND 1 10% 1/2W | | D1322 | 8-719-102-58 | DIODE RD3.6E-N2 | |
| R5270 | 1-247-851-00 | CARBON 6.8K 5% 1/6W | | IC | | | |
| R5271 | 1-247-843-00 | CARBON 3.3K 5% 1/6W | | IC1301 | 8-759-909-49 | IC CX23040 | |
| R5280 | 1-247-895-00 | CARBON 470K 5% 1/6W | | COIL | | | |
| R5297 | 1-205-778-11 | CEMENTED 4.7 10% 7W | | L1301 | 1-408-454-31 | MICRO INDUCTOR 100UH | |
| R5299 | 1-249-417-11 | CARBON 1K 5% 1/6W | | CONNECTOR | | | |
| VARIABLE RESISTOR | | | | M1 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | |
| RV5001 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON 4.7K | | M2 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| RV5008 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON 4.7K | | M3 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | |
| RV5009 | 1-228-723-00 | RES, ADJ, CERAMIC CARBON 4.7K | | M4 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| RV5010 | 1-228-721-00 | RES, ADJ, CERAMIC CARBON 2.2K | | M5 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | |
| SPARK GAP | | | | TRANSISTOR | | | |
| SG5001 | 1-519-063-XX | DISCHARGING GAP | | Q1301 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| TRANSFORMER | | | | Q1302 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| T5001 | 1-437-078-00 | TRANSFORMER, HORIZONTAL DRIVE | | Q1303 | 8-729-178-54 | TRANSISTOR 2SC2785 | |
| T5002A | 1-448-162-11 | TRANSFORMER, POWER | | RESISTOR | | | |
| T5003 | 1-421-656-11 | TRANSFORMER, FERRITE (DFT) | | R1301 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| T5004A | 1-439-366-12 | TRANSFORMER ASSY, FLYBACK | | R1302 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| T5005A | 1-421-590-11 | TRANSFORMER, LINE FILTER | | R1303 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| T5006A | 1-421-590-11 | TRANSFORMER, LINE FILTER | | R1304 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| ***** | | | | R1305 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| *A-1371-058-A | M BOARD, COMPLETE (Serial No.2,000,001 and later) ***** | | | R1306 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| *A-1371-176-A | M BOARD, COMPLETE (Serial No.7,000,001 and later) ***** | | | R1307 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| CAPACITOR | | | | R1308 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| C1301 | 1-102-978-00 | CERAMIC 220PF 5% 50V | | R1309 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| C1302 | 1-102-978-00 | CERAMIC 220PF 5% 50V | | R1310 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| C1303 | 1-101-004-00 | CERAMIC 0.01MF 50V | | R1311 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | |
| C1304 | 1-123-318-00 | ELECT 33MF 20% 16V | | | | | |
| C1305 | 1-106-196-00 | MYLAR 0.01MF 10% 100V | | | | | |
| C1306 | 1-123-333-00 | ELECT 100MF 20% 16V | | | | | |
| C1307 | 1-102-822-00 | CERAMIC 390PF 5% 50V | | | | | |
| C1308 | 1-101-888-00 | CERAMIC 68PF 5% 50V | | | | | |
| D1305 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1306 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1307 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1308 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1310 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1313 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1314 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1316 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1317 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1320 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1321 | 8-719-911-19 | DIODE 1SS119 | | | | | |
| D1322 | 8-719-102-58 | DIODE RD3.6E-N2 | | | | | |
| IC1301 | 8-759-909-49 | IC CX23040 | | | | | |
| L1301 | 1-408-454-31 | MICRO INDUCTOR 100UH | | | | | |
| M1 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | | | | | |
| M2 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | | | | |
| M3 | *1-564-441-11 | PLUG, CONNECTOR (2.5MM) 5P | | | | | |
| M4 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | | | | |
| M5 | *1-564-354-00 | PLUG, CONNECTOR (2.5MM) 3P | | | | | |
| Q1301 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | | |
| Q1302 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | | |
| Q1303 | 8-729-178-54 | TRANSISTOR 2SC2785 | | | | | |
| R1301 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1302 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1303 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1304 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1305 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1306 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1307 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1308 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1309 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1310 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |
| R1311 | 1-249-421-11 | CARBON 2.2K 5% 1/6W | | | | | |

NOTE:

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

| | | | | | | |
|---|----|----|----|----|----|----|
| M | T1 | T2 | XR | XG | XB | WA |
|---|----|----|----|----|----|----|

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|---------|--------------|---------------------|--------------|---------|---------------|---------------------|--------------|
| R1312 | 1-249-437-11 | CARBON | 47K 5% 1/6W | D1303 | 8-719-904-92 | DIODE G-9HY2 | |
| R1313 | 1-249-441-11 | CARBON | 100K 5% 1/6W | D1304 | 8-719-904-92 | DIODE G-9HY2 | |
| R1314 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | | | |
| R1315 | 1-247-887-00 | CARBON | 220K 5% 1/6W | | | | |
| R1316 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | | | | |
| | | | | | | | |
| R1317 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | | *1-615-622-12 | T2 BOARD | |
| R1318 | 1-247-823-00 | CARBON | 470 5% 1/6W | | | ***** | |
| R1319 | 1-249-405-11 | CARBON | 100 5% 1/6W | | | | |
| R1320 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | SWITCH | |
| R1321 | 1-247-823-00 | CARBON | 470 5% 1/6W | S1320A | 1-554-088-11 | SWITCH, KEY BOARD | |
| | | | | | | | |
| R1322 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | | | |
| R1323 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | | | |
| R1324 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | *1-618-355-11 | XR BOARD | |
| R1325 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | ***** | |
| R1326 | 1-249-433-11 | CARBON | 22K 5% 1/6W | | | | |
| | | | | | | CONNECTOR | |
| R1327 | 1-247-819-00 | CARBON | 330 5% 1/6W | | | | |
| R1328 | 1-247-791-00 | CARBON | 22 5% 1/6W | XR1 | *1-560-278-00 | PLUG, CONNECTOR 4P | |
| R1329 | 1-247-859-00 | CARBON | 15K 5% 1/6W | | | | |
| R1336 | 1-249-417-11 | CARBON | 1K 5% 1/6W | | | | |
| | | | | | | | |
| | | SWITCH | | | | | |
| S1301 | 1-554-088-00 | SWITCH, KEY BOARD | | | *1-618-356-11 | XG BOARD | |
| S1302 | 1-554-088-00 | SWITCH, KEY BOARD | | | | ***** | |
| S1303 | 1-554-088-00 | SWITCH, KEY BOARD | | | | CONNECTOR | |
| S1304 | 1-554-088-00 | SWITCH, KEY BOARD | | XG1 | *1-560-721-21 | PLUG, CONNECTOR 2P | |
| S1305 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| | | | | | | | |
| S1306 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| S1307 | 1-554-980-11 | SWITCH, KEY BOARD | | | *1-618-357-11 | XB BOARD | |
| S1308 | 1-554-980-11 | SWITCH, KEY BOARD | | | | ***** | |
| S1309 | 1-554-088-00 | SWITCH, KEY BOARD | | | | CONNECTOR | |
| S1310 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| | | | | | | | |
| S1311 | 1-554-088-00 | SWITCH, KEY BOARD | | XB1 | *1-560-278-00 | PLUG, CONNECTOR 5P | |
| S1312 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| S1313 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| S1316 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| S1317 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| | | | | | | | |
| S1319 | 1-554-980-11 | SWITCH, KEY BOARD | | | | | |
| S1321 | 1-553-651-00 | SWITCH, SLIDE | | | 1-543-060-00 | CORE | |
| S1322 | 1-553-651-00 | SWITCH, SLIDE | | | | | |
| S1323 | 1-553-651-00 | SWITCH, SLIDE | | | | CAPACITOR | |
| | | | | | | | |
| | | CRYSTAL | | C8501 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| X1301 | 1-527-476-00 | OSCILLATOR, CERAMIC | | C8502 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| | | | | C8503 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| | | | | C8504 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| | | | | C8505 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| | | | | | | | |
| | | | | C8506 | 1-102-973-00 | CERAMIC | 100PF 5% 50V |
| | | | | | | | |
| | | | | | | JACK | |
| | | | | J8503 | 1-507-792-00 | JACK | |
| | | | | | | | |
| | | | | | | COIL | |
| D1301 | 8-719-921-55 | DIODE SLP155B | | L8501 | 1-410-328-11 | MICRO INDUCTOR 10UH | |
| D1302 | 8-719-921-55 | DIODE SLP155B | | | | | |

WB

G(SW,REG)

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-----------|---------------|-------------------------------|--------------|----------------|---------------------------|-------------|--------|
| R8502 | 1-247-700-11 | CARBON | 100 5% 1/4W | △.1-413-219-11 | G BOARD | | |
| R8503 | 1-247-104-00 | CARBON | 75 5% 1/4W | ***** | | | |
| R8504 | 1-247-104-00 | CARBON | 75 5% 1/4W | *2-430-308-01 | INSULATOR (TK-03), TR | | |
| R8505 | 1-247-104-00 | CARBON | 75 5% 1/4W | *2-430-498-01 | RUBBER, HEAT SINK | | |
| R8506 | 1-247-104-00 | CARBON | 75 5% 1/4W | *2-430-499-01 | SHEET, INSULATING | | |
| R8507 | 1-249-429-11 | CARBON | 10K 5% 1/6W | *2-430-742-00 | BRACKET, RIGHT (SR-12), L | | |
| R8508 | 1-249-429-11 | CARBON | 10K 5% 1/6W | *2-430-743-00 | BRACKET, LEFT (SR-12), L | | |
| R8509 | 1-249-429-11 | CARBON | 10K 5% 1/6W | 2-430-773-01 | +PSW 3X6 | | |
| R8510 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | 2-430-060-01 | +PSW 3X18 | | |
| R8511 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8512 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8513 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| R8514 | 1-249-405-11 | CARBON | 100 5% 1/6W | | | | |
| R8515 | 1-249-405-11 | CARBON | 100 5% 1/6W | | | | |
| R8516 | 1-249-405-11 | CARBON | 100 5% 1/6W | | | | |
| R8517 | 1-247-853-00 | CARBON | 8.2K 5% 1/6W | | | | |
| R8518 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | | | |
| R8519 | 1-247-817-00 | CARBON | 270 5% 1/6W | | | | |
| R8520 | 1-247-817-00 | CARBON | 270 5% 1/6W | | | | |
| R8521 | 1-247-817-00 | CARBON | 270 5% 1/6W | | | | |
| R8522 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8523 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8524 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8525 | 1-249-433-11 | CARBON | 22K 5% 1/6W | | | | |
| R8526 | 1-249-433-11 | CARBON | 22K 5% 1/6W | | | | |
| R8527 | 1-249-419-11 | CARBON | 1.5K 5% 1/6W | | | | |
| R8528 | 1-247-823-00 | CARBON | 470 5% 1/6W | | | | |
| R8529 | 1-249-417-11 | CARBON | 1K 5% 1/6W | | | | |
| R8530 | 1-247-819-00 | CARBON | 330 5% 1/6W | | | | |
| R8531 | 1-249-433-11 | CARBON | 22K 5% 1/6W | | | | |
| R8532 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| R8533 | 1-249-405-11 | CARBON | 100 5% 1/6W | | | | |
| R8534 | 1-247-815-00 | CARBON | 220 5% 1/6W | | | | |
| R8535 | 1-247-819-00 | CARBON | 330 5% 1/6W | | | | |
| R8536 | 1-249-417-11 | CARBON | 1K 5% 1/6W | | | | |
| R8537 | 1-249-417-11 | CARBON | 1K 5% 1/6W | | | | |
| R8538 | 1-249-421-11 | CARBON | 2.2K 5% 1/6W | | | | |
| R8539 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | | | | |
| R8540 | 1-247-851-00 | CARBON | 6.8K 5% 1/6W | | | | |
| R8541 | 1-247-851-00 | CARBON | 6.8K 5% 1/6W | | | | |
| R8542 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | | | | |
| R8543 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | | | | |
| R8544 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| R8545 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| R8546 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| R8547 | 1-247-833-00 | CARBON | 1.2K 5% 1/6W | | | | |
| R8548 | 1-247-857-00 | CARBON | 12K 5% 1/6W | | | | |
| R8549 | 1-249-425-11 | CARBON | 4.7K 5% 1/6W | | | | |
| R8550 | 1-249-417-11 | CARBON | 1K 5% 1/6W | | | | |
| R8551 | 1-249-429-11 | CARBON | 10K 5% 1/6W | | | | |
| CONNECTOR | | | | | | | |
| WB1 | *1-564-346-00 | CONNECTOR, BOARD TO BOARD 18P | | | | | |
| WB2 | *1-564-458-11 | PLUG, CONNECTOR (2.5MM) 10P | | | | | |
| WB3 | *1-564-457-11 | PLUG, CONNECTOR (2.5MM) 9P | | | | | |
| WB4 | *1-564-450-11 | PLUG, CONNECTOR (2.5MM) 2P | | | | | |

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

G(SW,REG)

| Ref.No. | Part No. | Description | Remark | Ref.No. | Part No. | Description | Remark |
|-------------------|----------------|-------------------------|--------|--------------------|----------------|-------------------------|--------|
| <u>DIODE</u> | | | | | | | |
| D601 | △.8-719-901-70 | DIODE CTU-38S | | R611 | △.1-247-913-11 | CARBON 1K 5% 1/4W | |
| D602 | △.8-719-300-52 | DIODE CTU-38R | | R612 | △.1-246-525-25 | CARBON 150K 5% 1/4W | |
| D603 | △.8-719-301-25 | DIODE CTL22S | | R613 | △.1-246-481-25 | CARBON 2.2K 5% 1/4W | |
| D604 | △.8-719-901-90 | DIODE ESAC33-02N | | R614 | △.1-246-493-25 | CARBON 6.8K 5% 1/4W | |
| D605 | △.8-719-200-01 | DIODE 10E1 | | R615 | △.1-246-487-25 | CARBON 3.9K 5% 1/4W | |
| D606 | △.8-719-200-01 | DIODE 10E1 | | R616 | △.1-246-515-25 | CARBON 56K 5% 1/4W | |
| D607 | △.8-719-920-76 | DIODE 1S2076 | | R617 | △.1-246-505-25 | CARBON 22K 5% 1/4W | |
| D608 | △.8-719-920-76 | DIODE 1S2076 | | R618 | △.1-246-479-25 | CARBON 1.8K 5% 1/4W | |
| D609 | △.8-719-920-76 | DIODE 1S2076 | | R619 | △.1-214-779-51 | METAL FILM 120K 1% 1/4W | |
| <u>CORE</u> | | | | *R620 | △.1-214-769-51 | METAL FILM 47K 1% 1/4W | |
| FB601 | △.1-543-060-11 | CORE | | *R620 | △.1-214-770-51 | METAL FILM 51K 1% 1/4W | |
| FB602 | △.1-543-060-11 | CORE | | *R620 | △.1-214-771-51 | METAL FILM 56K 1% 1/4W | |
| FB603 | △.1-543-060-11 | CORE | | *R620 | △.1-214-772-51 | METAL FILM 62K 1% 1/4W | |
| FB604 | △.1-543-060-11 | CORE | | *R620 | △.1-214-773-51 | METAL FILM 68K 1% 1/4W | |
| FB605 | △.1-543-060-11 | CORE | | *R620 | △.1-214-774-51 | METAL FILM 75K 1% 1/4W | |
| FB606 | △.1-543-060-11 | CORE | | *R620 | △.1-214-775-51 | METAL FILM 82K 1% 1/4W | |
| FB607 | △.1-543-060-11 | CORE | | *R620 | △.1-214-776-51 | METAL FILM 91K 1% 1/4W | |
| FB608 | △.1-543-060-11 | CORE | | *R620 | △.1-214-777-51 | METAL FILM 100K 1% 1/4W | |
| FB609 | △.1-543-060-11 | CORE | | *R620 | △.1-214-778-51 | METAL FILM 110K 1% 1/4W | |
| FB610 | △.1-543-060-11 | CORE | | *R620 | △.1-214-779-51 | METAL FILM 120K 1% 1/4W | |
| FB611 | △.1-543-060-11 | CORE | | *R620 | △.1-214-780-51 | METAL FILM 130K 1% 1/4W | |
| FB612 | △.1-543-060-11 | CORE | | *R620 | △.1-214-781-51 | METAL FILM 150K 1% 1/4W | |
| <u>IC</u> | | | | *R620 | △.1-214-782-51 | METAL FILM 160K 1% 1/4W | |
| IC601 | △.8-759-906-62 | IC MB3759-SNY | | *R620 | △.1-214-783-51 | METAL FILM 180K 1% 1/4W | |
| <u>COIL</u> | | | | *R620 | △.1-214-784-51 | METAL FILM 200K 1% 1/4W | |
| L601 | △.1-421-606-11 | L.F.T | | *R620 | △.1-214-785-51 | METAL FILM 220K 1% 1/4W | |
| L602 | △.1-410-245-11 | COIL, CHOKE 2.5MMH | | *R620 | △.1-214-786-51 | METAL FILM 240K 1% 1/4W | |
| L603 | △.1-408-933-11 | COIL, CHOKE | | *R620 | △.1-214-787-51 | METAL FILM 270K 1% 1/4W | |
| L604 | △.1-410-244-11 | COIL, CHOKE 300UH | | *R620 | △.1-214-788-51 | METAL FILM 300K 1% 1/4W | |
| L605 | △.1-408-933-11 | COIL, CHOKE | | *R620 | △.1-214-952-51 | METAL FILM 330K 1% 1/4W | |
| L606 | △.1-408-933-11 | COIL, CHOKE | | *R620 | △.1-214-953-51 | METAL FILM 360K 1% 1/4W | |
| <u>TRANSISTOR</u> | | | | *R620 | △.1-214-954-51 | METAL FILM 390K 1% 1/4W | |
| Q601 | △.8-729-301-76 | TRANSISTOR STR8124-R | | *R620 | △.1-214-955-51 | METAL FILM 430K 1% 1/4W | |
| Q602 | △.8-729-177-42 | TRANSISTOR 2SD774-3 | | *R620 | △.1-214-956-51 | METAL FILM 470K 1% 1/4W | |
| Q603 | △.8-729-177-42 | TRANSISTOR 2SD774-3 | | *R620 | △.1-214-957-51 | METAL FILM 510K 1% 1/4W | |
| Q604 | △.8-729-178-52 | TRANSISTOR 2SC2785-J | | *R620 | △.1-214-958-51 | METAL FILM 560K 1% 1/4W | |
| Q605 | △.8-729-178-52 | TRANSISTOR 2SC2785-J | | *R620 | △.1-214-959-51 | METAL FILM 620K 1% 1/4W | |
| Q606 | △.8-729-117-52 | TRANSISTOR 2SA1175-J | | *R620 | △.1-214-960-51 | METAL FILM 680K 1% 1/4W | |
| Q607 | △.8-729-117-52 | TRANSISTOR 2SA1175-J | | *R620 | △.1-214-961-51 | METAL FILM 750K 1% 1/4W | |
| Q608 | △.8-729-117-52 | TRANSISTOR 2SA1175-J | | *R620 | △.1-214-962-51 | METAL FILM 820K 1% 1/4W | |
| <u>RESISTOR</u> | | | | *R620 | △.1-214-963-51 | METAL FILM 910K 1% 1/4W | |
| R601 | △.1-246-429-25 | CARBON 15 5% 1/4W | | *R620 | △.1-214-964-51 | METAL FILM 1.0M 1% 1/4W | |
| R602 | △.1-246-429-25 | CARBON 15 5% 1/4W | | R621 | △.1-214-745-51 | METAL FILM 4.7K 1% 1/4W | |
| R603 | △.1-214-745-51 | METAL FILM 4.7K 1% 1/4W | | R622 | △.1-246-509-25 | CARBON 33K 5% 1/4W | |
| R604 | △.1-214-745-51 | METAL FILM 4.7K 1% 1/4W | | R623 | △.1-246-493-25 | CARBON 6.8K 5% 1/4W | |
| R605 | △.1-217-267-11 | WIREWOUND 33 10% 3W F | | R626 | △.1-246-481-25 | CARBON 2.2K 5% 1/4W | |
| R606 | △.1-246-457-25 | CARBON 220 5% 1/4W | | R627 | △.1-246-481-25 | CARBON 2.2K 5% 1/4W | |
| R607 | △.1-246-418-25 | CARBON 5.1 5% 1/4W | | R628 | △.1-246-497-25 | CARBON 10K 5% 1/4W | |
| R608 | △.1-246-449-25 | CARBON 100 5% 1/4W | | R629 | △.1-214-781-51 | METAL FILM 150K 1% 1/4W | |
| R609 | △.1-246-449-25 | CARBON 100 5% 1/4W | | R630 | △.1-214-746-51 | METAL FILM 5.1K 1% 1/4W | |
| R610 | △.1-246-497-25 | CARBON 10K 5% 1/4W | | <u>TRANSFORMER</u> | | | |
| | | | | T601 | △.1-421-460-31 | TRANSFORMER, CURRENT | |
| | | | | T602 | △.1-448-071-11 | TRANSFORMER, POWER | |
| | | | | T603 | △.1-447-106-11 | TRANSFORMER, DRIVE | |

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

• * : selected to yield optimum performance.

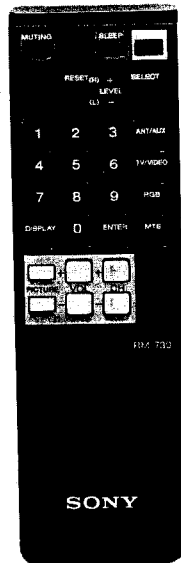
| Ref.No. | Part No. | Description | Remark |
|--|----------------|---|--------|
| MISCELLANEOUS ***** | | | |
| | △.1-230-089-21 | RESISTOR ASSY, HIGH-VOLTAGE | |
| | △.1-413-219-11 | SWITCHING REGULATOR (TK-10) | |
| | △.1-417-125-11 | SELECTOR, ANTENNA | |
| | △.1-451-269-12 | DEFLECTION YOKE (SY-174) | |
| | △.1-452-261-31 | CRT NECK ASSY (362) | |
| | △.1-452-361-12 | NECK ASSY, CRT (NA365) | |
| | △.1-452-361-22 | NECK ASSY, CRT (NA365) | |
| | △.1-463-471-33 | SYNTHESIZER UNIT, FREQUENCY | |
| | △.1-509-841-12 | OUTLET, AC | |
| | 1-536-922-11 | TERMINAL BOARD, INPUT/OUTPUT | |
| | 1-536-998-11 | TERMINAL BOARD, INPUT/OUTPUT | |
| | *1-551-382-00 | CABLE P-P | |
| | *1-557-056-31 | CABLE, P-P | |
| | △.1-557-970-11 | CORD, POWER | |
| | △.1-570-258-21 | SWITCH, THERMAL REED | |
| | △.8-737-551-05 | CRT (SD-174(G)) | |
| | △.8-737-552-05 | CRT (SD-174(B)) | |
| | △.8-737-553-05 | CRT (SD-174(R)) | |
| SP901 | 1-503-601-11 | SPEAKER | |
| SP902 | 1-503-601-11 | SPEAKER | |
| TU101A | △.1-463-470-00 | TUNER, ET (BT-896) (Serial No.7,000,001 and later) | |
| ***** | | | |
| ACCESSORIES AND PACKING MATERIALS ***** | | | |
| | A-1470-694-A | COMMANDER ASSY (RM-730) | |
| | △.1-417-135-11 | MIXER, U/V | |
| | *4-359-683-00 | BAG, PROTECTION | |
| | 4-375-541-01 | BAND (Serial No.2,000,001 and later) | |
| | 4-375-542-01 | BOARD, TOP (Serial No.2,000,001 and later) | |
| | 4-375-543-01 | CUSHION (UPPER) (ASSY) (Serial No.2,000,001 and later) | |
| | 4-375-544-01 | CUSHION (LOWER) (ASSY) (Serial No.2,000,001 and later) | |
| | 4-375-545-01 | SHEET, PROTECTION | |
| | 4-375-546-01 | INDIVIDUAL CARTON (Serial No.2,000,001 and later) | |
| | 4-375-547-01 | TRAY (Serial No.2,000,001 and later) | |
| | *4-380-839-01 | BAND (Serial No.7,000,001 and later) | |
| | *4-380-840-01 | BOARD, TOP (Serial No.7,000,001 and later) | |
| | *4-380-841-01 | CUSHION (LOWER) (ASSY) (Serial No.7,000,001 and later) | |
| | *4-380-842-01 | CUSHION (UPPER) (ASSY) (Serial No.7,000,001 and later) | |
| | *4-380-843-01 | INDIVIDUAL CARTON (Serial No.7,000,001 and later) | |
| | *4-380-844-01 | TRAY (Serial No.7,000,001 and later) | |
| | *4-380-850-01 | CUSHION (Serial No.7,000,001 and later) | |
| | 4-482-213-21 | MANUAL, INSTRUCTION | |
| | 4-491-213-22 | INSTRUCTION | |

NOTE:

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

RM-730

SERVICE MANUAL



May, 1986

SPECIFICATIONS

| | |
|-----------------------|--|
| Remote control system | Infrared control |
| Power requirements | 3V DC Battery size AA × 2 (IEC battery designation R6) |
| Dimensions | Approx. 55 × 19.8 × 175 mm (w/h/d) (2 1/4 × 25/32 × 7 inches) |
| Weight | 130g (4 1/2 oz), including batteries |

Design and specifications are subject to change without notice.

RGB multi input (8-pin plug)

| Pin No. | Signal assignment |
|---------|---------------------------|
| 1 | Intensity input |
| 2 | Red input |
| 3 | Green input |
| 4 | Blue input |
| 5 | Ground |
| 6 | Ground |
| 7 | H. sync or composite sync |
| 8 | V. sync |

REMOTE COMMANDER
SONY®

ACC

1. OPERATION

VIEWING TV PROGRAMS

This set is capable of receiving normal VHF and UHF broadcasts plus cable TV channels. (See "Cable TV channel chart" on this page.)

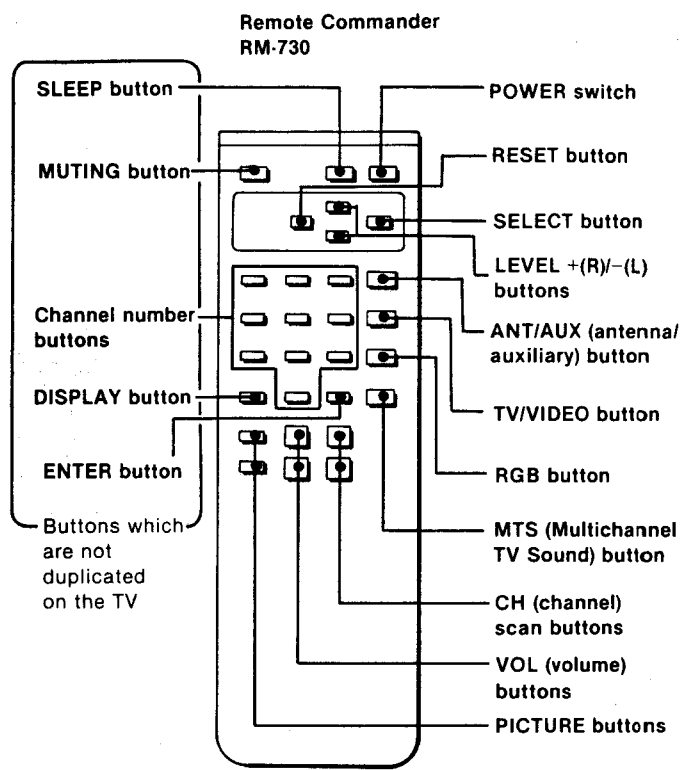
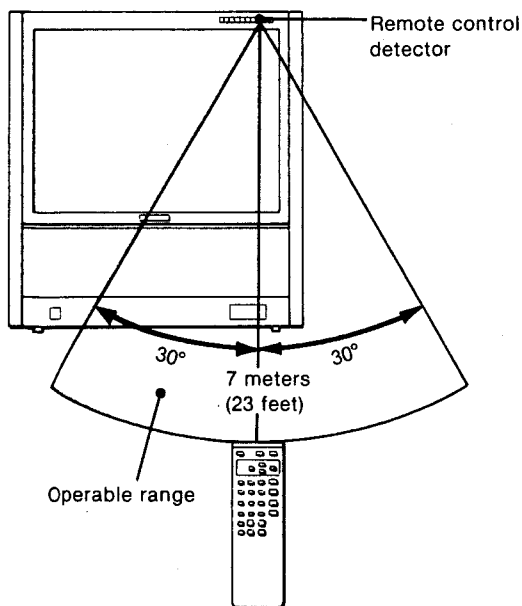
Usually the Remote Commander is all that is needed to operate the unit in everyday use.

Remote Commander RM-730

- 1 Turn the Remote Commander face down, press the tab and lift the cover.
- 2 Place batteries in the Commander with the polarities in the correct directions as illustrated inside the case.
- 3 Replace the cover.

Notes

- Use 2 size AA batteries (IEC designation R6).
- In normal operation, batteries will last up to half a year. If the set does not operate properly, the batteries might be exhausted. Replace all with new ones.
- To avoid damage from possible battery leakage, remove the batteries for extended unused periods.
- Be sure that there are no obstructions between the Commander and the unit.
- Operable range is limited.



Cable TV channel chart *

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to this chart.

| Number on this set | | | | | | | | | | 1 | 5 | 6 | 14 | 15 | 16 | 17 |
|----------------------------|-----|-----|-----|-----|------|------|------|-----|----|-----|-----|-----|----|----|----|----|
| Corresponding CATV channel | | | | | | | | | | A-8 | A-7 | A-6 | A | B | C | D |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |
| E | F | G | H | I | J | K | L | M | N | O | P | Q | | | | |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | | | | | | | | |
| R | S | T | U | V | W | W+1 | W+2 | W+3 | | | | | | | | |
| 93 | 94 | | | | | | | | | | | | | | | |
| 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | | | | | | | | | |
| A-5 | A-4 | A-3 | A-2 | A-1 | W+59 | W+60 | W+61 | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

Check with your local cable TV company for more complete information on the available channels.

*The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Preparation

Make sure the following are properly set.

- On-screen "VIDEO 1, 2 or 3", "EXT-A" or "RGB" indications and the RGB or VIDEO lamp should be off. (Press TV/VIDEO button or RGB button as many times as necessary until they go out.)
- MONO/AUTO STEREO selector on the sub control panel should be set to AUTO STEREO position.
- If the "SAP" indication appears, press the MTS button twice so that the "MAIN" indication is displayed.

Depending on the channel to be viewed, check the following and change as necessary.

- CABLE ON/OFF selector:
 - For VHF and UHF channels, set to OFF \square .
 - For cable TV channels, set to ON \square .
- On-screen "AUX"* indication:
 - (Press ANT/AUX button to change as necessary.)
 - For VHF, UHF and regular cable TV channels, the indicator should be off.
 - For cable TV channels, the indicator should be displayed.

*The displays, "VIDEO", "EXT-A", "RGB" or "AUX" indicate that signals fed in through the VIDEO 1/3 IN jacks, VIDEO 2 IN AV uniconnector, the external audio jacks, the RGB multi input connector or through the AUX terminals are being received.

Operation

1 Press POWER to turn on the set.

The channel number will be displayed on the screen and the SLEEP lamp will light up for several seconds.

2 Select channels in one of the following two ways.

- Press the numeral(s) of the channel and then press ENTER.

Ex. To select channel 6, press 6 and then ENTER.

To select channel 125, press 1, 2, 5 and then ENTER.

If you pressed a wrong numeral, wait for a few seconds and it will disappear. Then try again.

- Press CH "+" for higher-numbered channels and "-" for lower-numbered channels. Preset channels will appear in sequence. (For presetting desired channels, see page 10.)

The channel display will remain on the screen for a few seconds. To keep the display on the screen, press DISPLAY.

3 Adjust the volume and picture to your preference, if necessary.

Press VOL "+" to increase volume, or "-" to decrease it.

Press PICTURE "+" to increase picture contrast, or "-" to decrease it.



If the picture rolls vertically, turn V HOLD control of the registration panel on the front side until the picture stabilizes.



V HOLD

To mute the sound immediately, press MUTING. The "MUTING" display will appear and remain on the screen. Press it again to restore the sound to its previously-set level or press VOLUME +.

To turn off the set, press POWER again.

To have the set turn off automatically after one hour, press SLEEP. The "SLEEP" display will appear on the screen a few seconds and the SLEEP lamp on the control panel will remain lit for one hour.

To cancel the sleep timer, press SLEEP again so that the "SLEEP" display disappears, or turn off the set.

LISTENING TO MULTICHANNEL TV SOUND(MTS) BROADCASTS

To receive a stereo program

Normally set the MONO/AUTO STEREO selector to AUTO STEREO. In this position, the STEREO lamp on the control panel will light up whenever a stereo broadcast is received.

To listen to the stereo sound, select the MAIN mode with the MTS button so that the on-screen MAIN indicator appears. The stereo sound will be heard from the left and right speakers.

Every push on the MTS button changes the indicator below the channel number as follows:



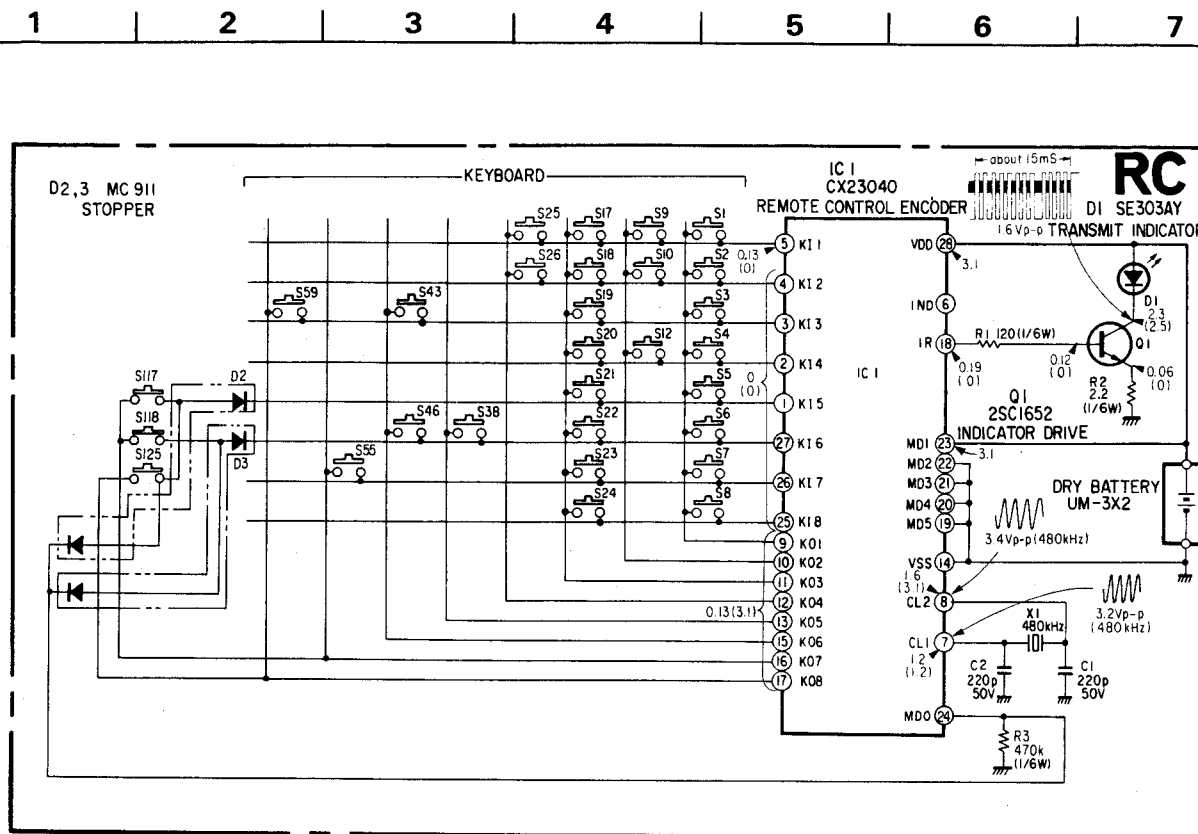
When there is a SAP (Second Audio Program) broadcast Select the SAP mode so that the SAP indicator will be displayed and only the SAP sound will be heard from both speakers.

To listen to both MAIN and SAP broadcasts

Select the BOTH mode so that the BOTH indicator is displayed. The MAIN and SAP sounds will come out from the left and right speakers respectively.

The MAIN sound becomes monaural(mixed) even if it is a stereo broadcast, as the sound comes only from the left speaker.

2. SCHEMATIC DIAGRAM



KEY MATRIX TABLE

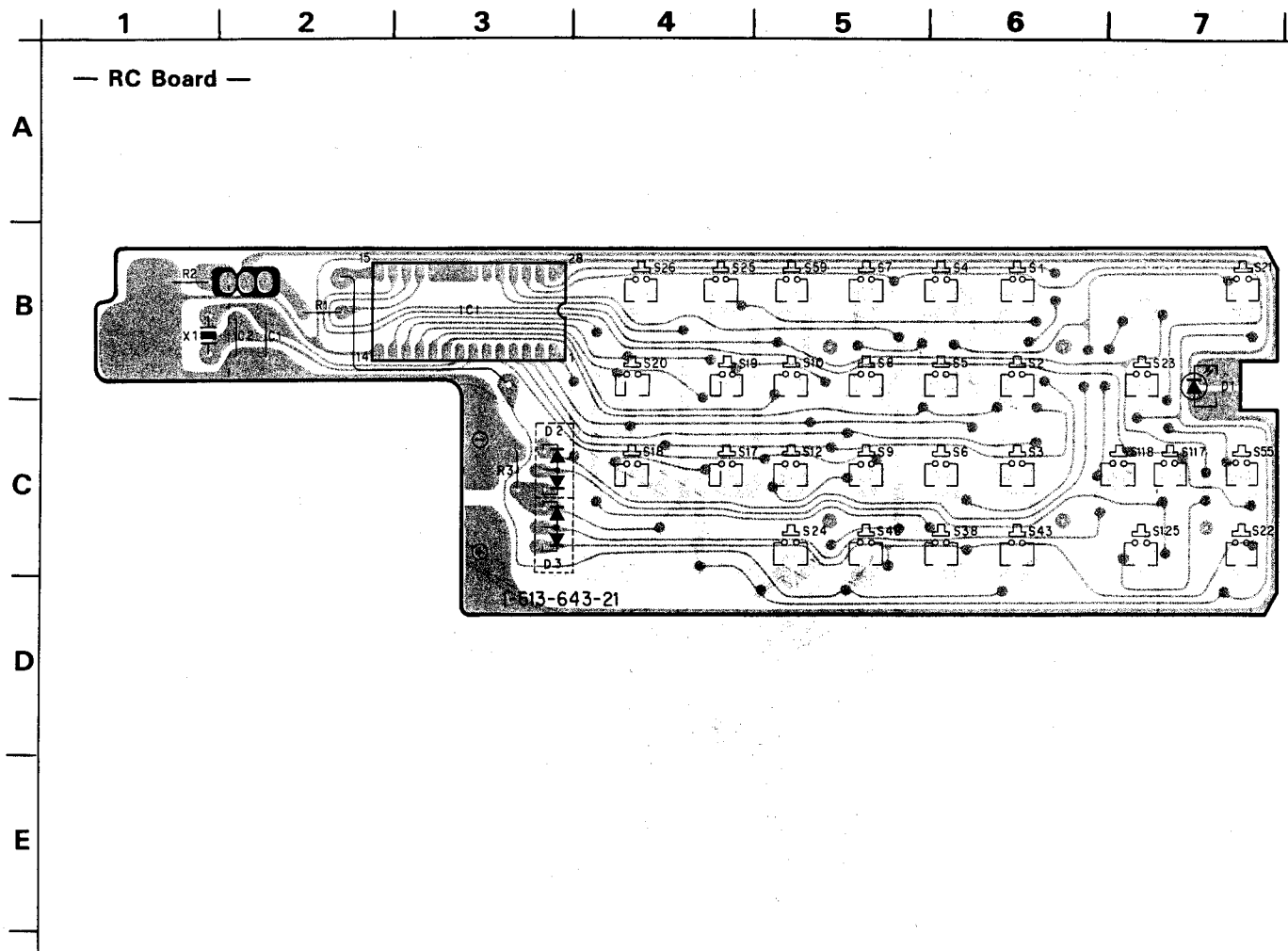
| | | K01 | | K02 | | K03 | | K04 | | K05 | | K06 | | K07 | | K08 | | | |
|-----|----|-----|-----|-------|-----|--------|-----|-----------|-----|----------|-----|---------|-----|-----|---------|-----|--|------|-------------|
| K11 | S1 | 1 | S9 | 9 | S17 | CH + | S25 | PICTURE + | S33 | | S41 | | S49 | S57 | | | | S117 | LEVEL + (R) |
| K12 | S2 | 2 | S10 | 0 | S18 | CH - | S26 | PICTURE - | S34 | | S42 | | S50 | S58 | | | | S118 | LEVEL - (L) |
| K13 | S3 | 3 | S11 | | S19 | VOL + | S27 | | S35 | | S43 | ANT/AUX | S51 | S59 | DISPLAY | | | S125 | SELECT |
| K14 | S4 | 4 | S12 | ENTER | S20 | VOL - | S28 | | S36 | | S44 | | S52 | S60 | | | | | |
| K15 | S5 | 5 | S13 | | S21 | MUTING | S29 | | S37 | | S45 | | S53 | S61 | | | | | |
| K16 | S6 | 6 | S14 | | S22 | POWER | S30 | | S38 | TV/VIDEO | S46 | R G B | S50 | S62 | | | | | |
| K17 | S7 | 7 | S15 | | S23 | RESET | S31 | | S39 | | S47 | | S55 | S63 | | | | | |
| K18 | S8 | 8 | S16 | | S24 | MTS | S32 | | S40 | | S48 | | S56 | S64 | | | | | |

Note:

- All Capacitors are in μF unless otherwise noted, pF: μpF
50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, 1/6W unless otherwise noted.
- $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- All voltages are in V.
- Voltages are dc with respect to ground unless otherwise noted.
- Reading are taken with a 10 $\text{M}\Omega$ digital multimeter.
- Voltages and waveform are for when **1** button is pressed.
- Voltages in () are taken with button not pressed.
- Voltage variations may be noted due to normal production tolerances.
- — : B + bus.

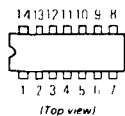
3. PRINTED WIRING BOARD

— Conductor Side —

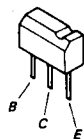


4. SEMICONDUCTORS

CX23040



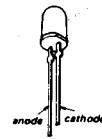
2SC1652



MC911



SE303AY



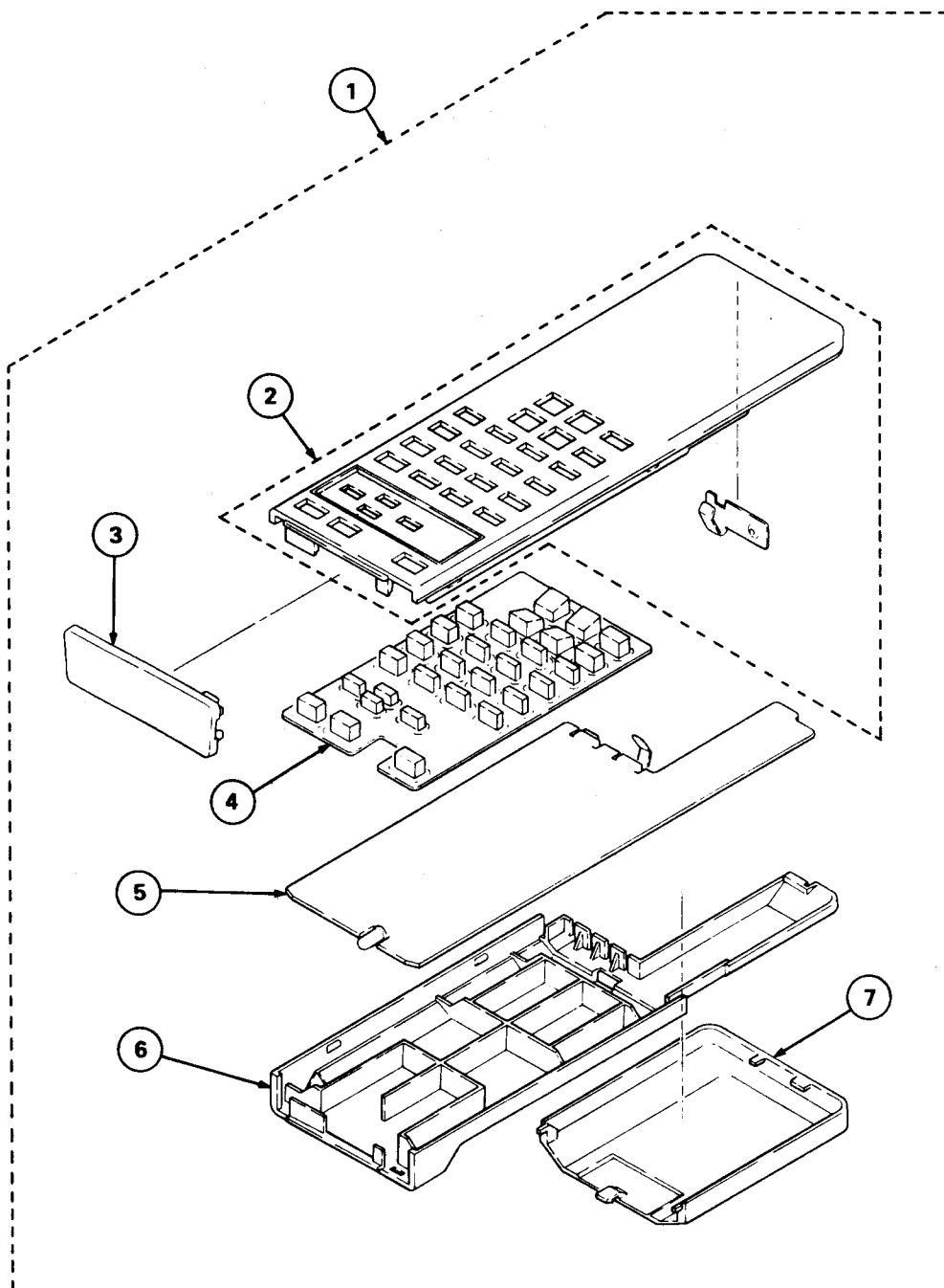
SLR-932A



5. EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



| No. | Part No. | Description | Remark | No. | Part No. | Description | Remark |
|-----|--------------|-------------------------|--------|-----|---------------|----------------|--------|
| 1 | A-1470-694-A | COMMANDER ASSY (RM-730) | 2-7 | 5 | *1-613-643-21 | RC BOARD | |
| 2 | X-4375-402-1 | CASE ASSY, UPPER | | 6 | 4-373-824-01 | CASE, LOWER | |
| 3 | 4-373-819-01 | PLATE, FROSTED | | 7 | 4-373-821-01 | COVER, BATTERY | |
| 4 | 4-375-448-01 | SHEET, RUBBER | | | | | |

6. ELECTRICAL PARTS LIST

NOTE:

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS

- MF : μ F, PF : μ F

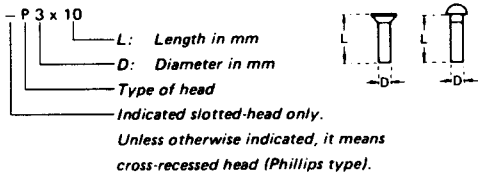
RESISTORS

- All resistors are in ohms
- F : nonflammable

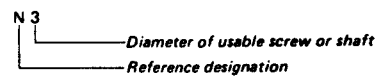
| Ref.No. | Part No. | Description | Remark |
|---------|---------------|-----------------------|---------|
| | *1-613-643-21 | RC BOARD ***** | |
| | 4-350-924-00 | TERMINAL (B), BATTERY | |
| | 4-372-835-01 | TERMINAL (A), BATTERY | |
| | | <u>CAPACITOR</u> | |
| C1 | 1-102-110-00 | CERAMIC 220PF | 10% 50V |
| C2 | 1-102-110-00 | CERAMIC 220PF | 10% 50V |
| | | <u>DIODE</u> | |
| D1 | 8-719-107-82 | DIODE SE303AY | |
| D2 | 8-719-000-04 | DIODE MC911 | |
| D3 | 8-719-000-04 | DIODE MC911 | |
| | | <u>IC</u> | |
| IC1 | 8-759-909-49 | IC CX23040 | |
| | | <u>TRANSISTOR</u> | |
| Q1 | 8-729-965-22 | TRANSISTOR 2SC1652 | |
| | | <u>RESISTOR</u> | |
| R1 | 1-247-809-00 | CARBON 120 5% | 1/6W |
| R2 | 1-247-767-00 | CARBON 2.2 5% | 1/6W |
| R3 | 1-247-895-00 | CARBON 470K 5% | 1/6W |
| | | <u>CRYSTAL</u> | |
| X1 | 1-527-476-41 | OSCILLATOR, CERAMIC | |













HARDWARE NOMENCLATURE














Screw:



Nut, Washer, Retaining ring:



| Reference Designation | Shape | Description | Remarks |
|-----------------------|---|---|--|
| SCREWS | | | |
| P |  | pan-head screw | binding-head (B) screw for replacement |
| PWH |  | pan-head screw with washer face | binding-head (B) screw and flat washer for replacement |
| PS PSP |  | pan-head screw with spring washer | binding-head (B) screw and spring washer for replacement |
| PSW PSPW |  | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R |  | round-head screw | binding-head (B) screw for replacement |
| K |  | flat-countersunk-head screw | |
| RK |  | oval-countersunk-head screw | |
| B |  | binding-head screw | |
| T |  | truss-head screw | binding-head (B) screw for replacement |
| F |  | flat-fillister-head screw | |
| RF |  | fillister-head screw | |
| BV |  | brazier-head screw | |

| Reference Designation | Shape | Description | Remarks |
|----------------------------|--|--|---|
| SELF-TAPPING SCREWS | | | |
| TA |  | self-tapping screw | ex: TA, P 3 x 10 |
| PTP |  | pan-head self-tapping screw | binding-head self-tapping (TA, B) screw for replacement |
| PTPWH |  | pan-head self-tapping screw with washer face | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH |  | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement |
| SET SCREWS | | | |
| SC |  | set screw | |
| SC |  | hexagon-socket set screw | ex: SC 2.6 x 4, hexagon socket |
| NUT | | | |
| N |  | nut | |
| WASHERS | | | |
| W |  | flat washer | |
| SW |  | spring washer | |
| LW |  | internal-tooth lock washer | ex: LW3, internal |
| LW |  | external-tooth lock washer | ex: LW3, external |
| RETAINING RINGS | | | |
| E |  | retaining ring | |
| G |  | grip-type retaining ring | |